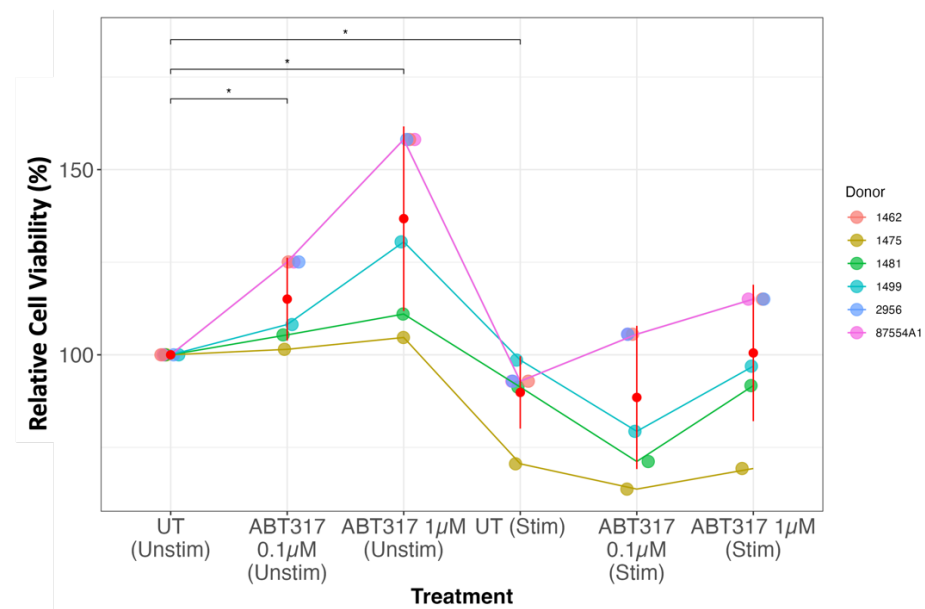


Supplementary file for the paper:**Understanding mechanisms of JAK1 inhibition on synovial fibroblasts using combinatorial approaches of bulk and single cell RNAseq analyses***Y. Son, D. Korenfeld, A. Suarez-Fueyo, M. Ruzek, J. Wang, B. Harvey***Data availability statement**

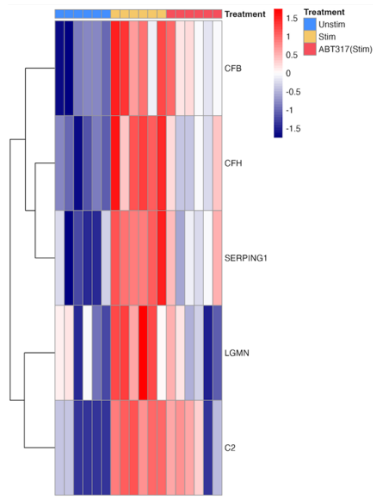
Bulk and Single cell RNA-seq data were deposited into the Gene Expression Omnibus database under accession number GSE243028 and are available at the following URL:

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE243028>. All data supporting the findings of the study are included in the article or uploaded as online supplemental information.

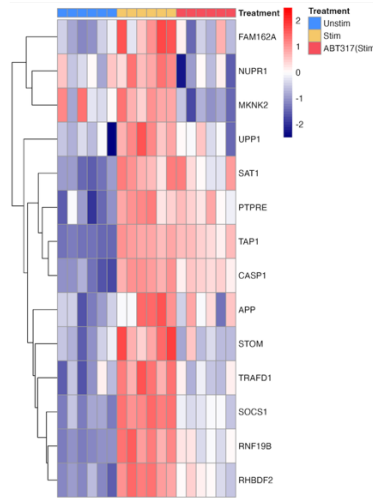
Supplementary Figures**Supplementary Fig. 1. Cytotoxicity of ABT-317 and conditioned media stimulation**

Cytotoxicity of ABT-317 and conditioned media stimulation was measured by relative cell viability (%) using CellTiter-Glo assay. *p*-values were calculated by an unpaired Wilcoxon rank sum test and adjusted for multiple testing with the Holm–Bonferroni method ($p\text{-adjval} \leq 0.05$, (*)).

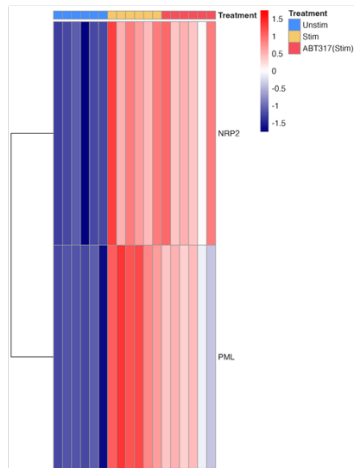
HALLMARK_COAGULATION



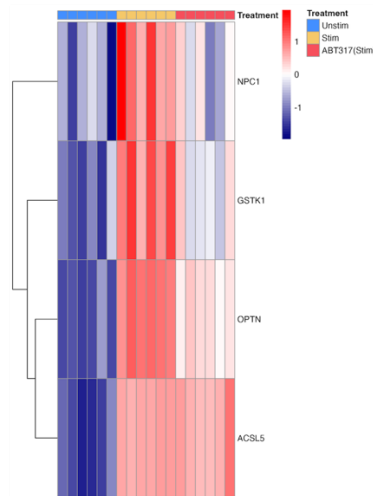
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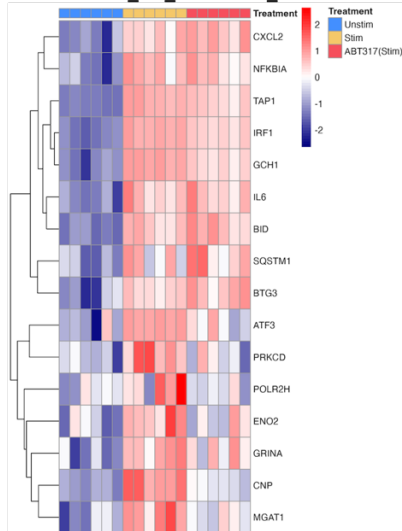
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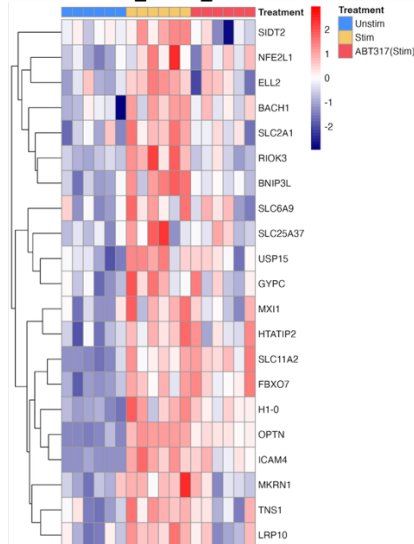
HALLMARK_BILE_ACID_METABOLISM



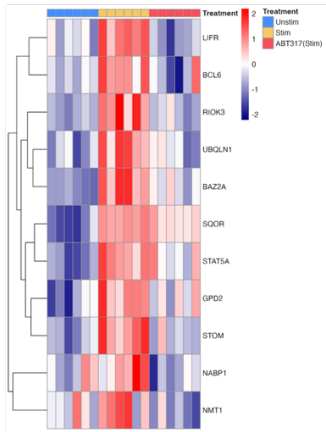
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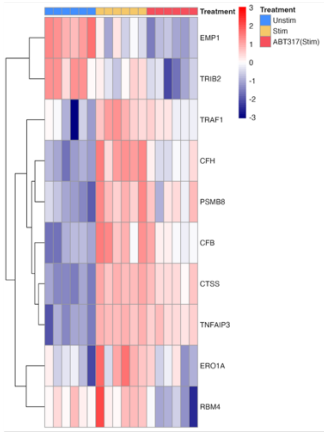
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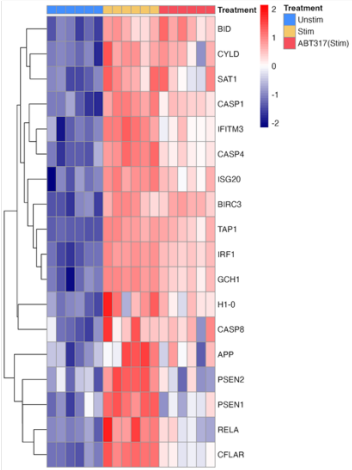
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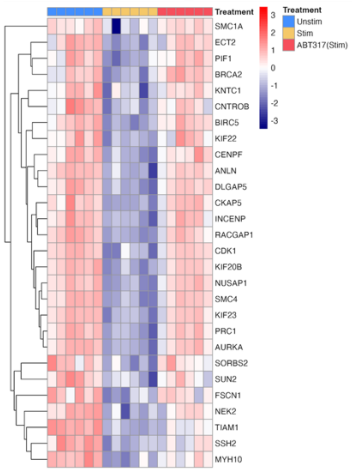
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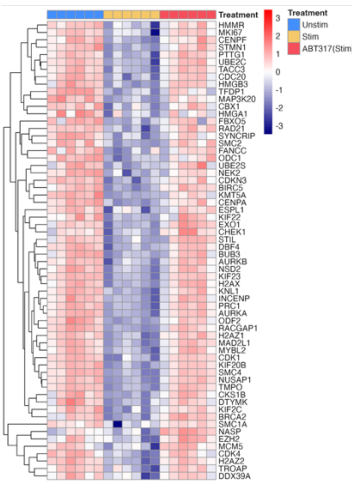
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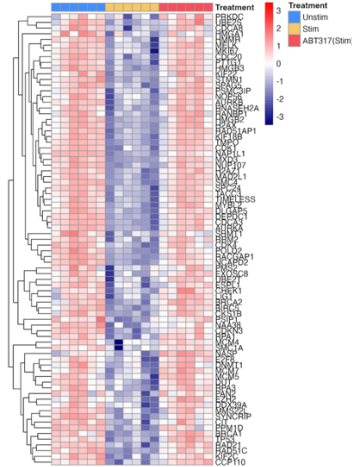
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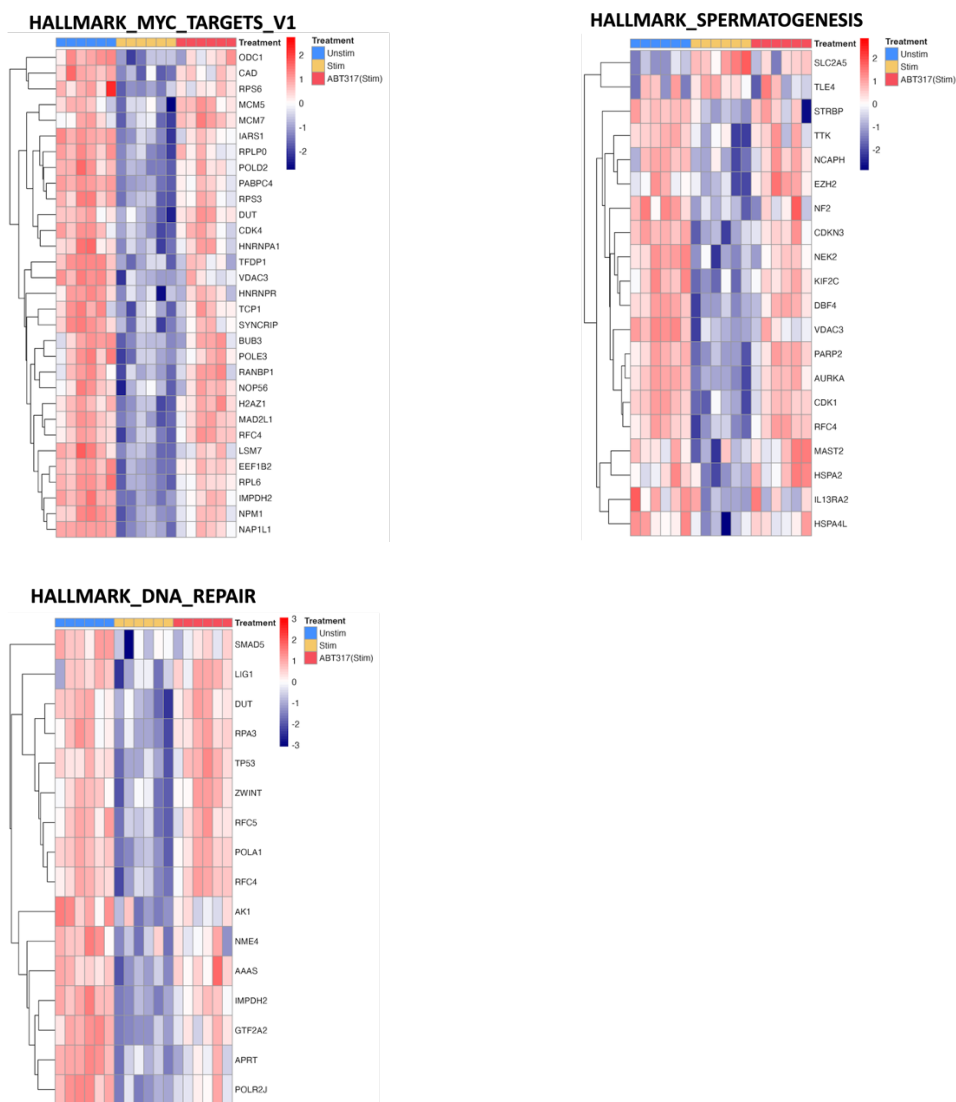


HALLMARK_G2M_CHECKPOINT

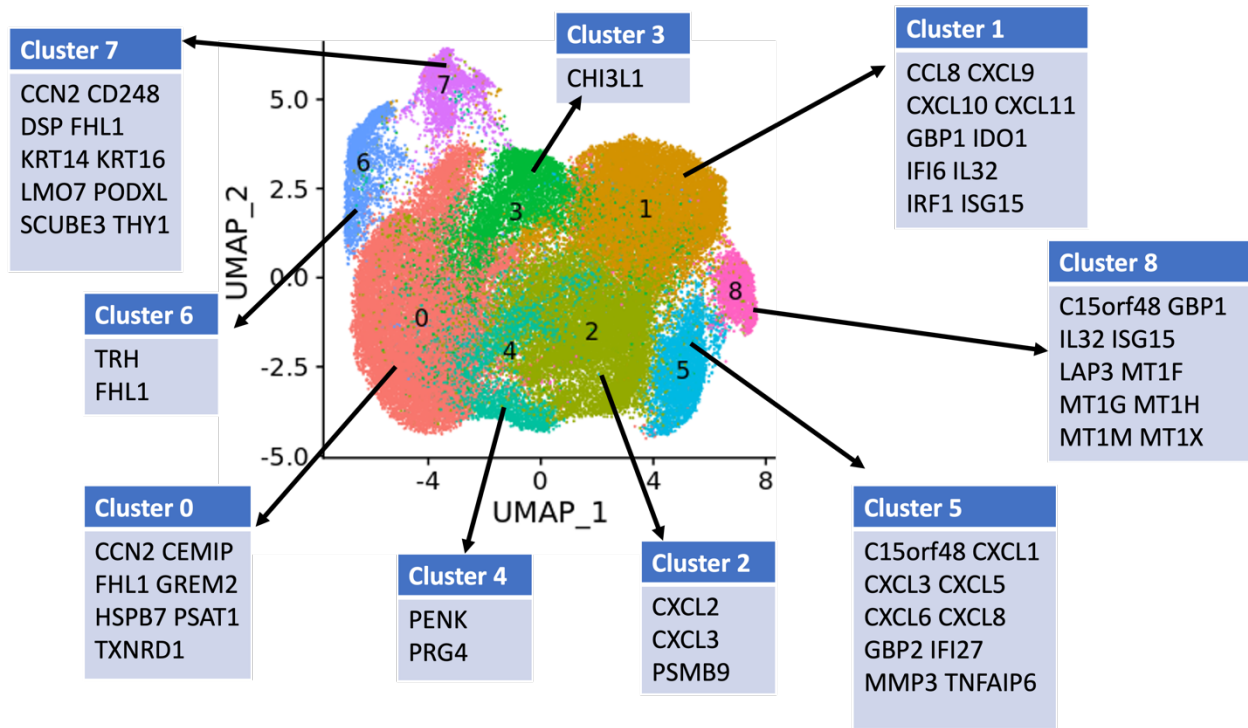


HALLMARK_E2F_TARGETS



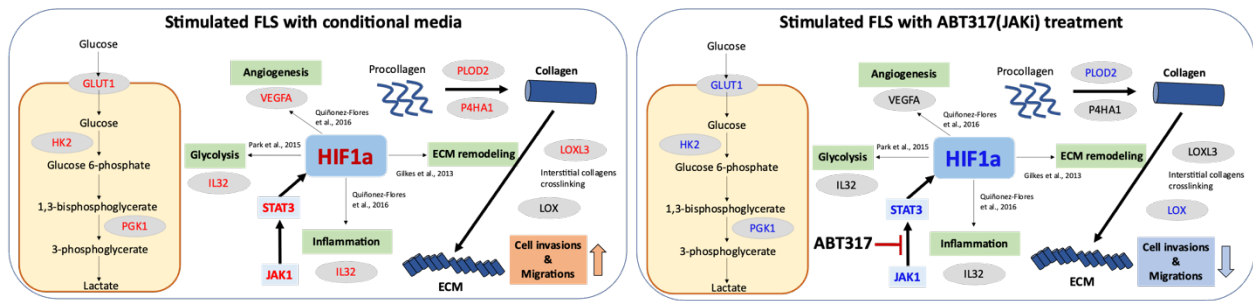


Supplementary Fig 2-22. Heatmap plot revealing the expression of the genes for selected Hallmark gene set signature from Fig 2A and B in RA-FLS cells with different treatment groups. Color scale indicates the relative gene expression.



Supplementary Fig. 23. Top marker genes in each cluster

UMAP plots of all 87,108 cells by Seurat clustering (resolution = 0.2). For each individual cluster, we identified the top ten genes that were differentially expressed in a cluster compared to others by Seurat's *FindAllMarker* function. Top 10 marker genes were identified by p adjusted values.



Supplementary Fig. 24. Proposed model of HIF1A related pathways after treating ABT317 (JAK1 selective inhibitor) in conditioned media (Stim) treatment.

Involvement of HIF1A and its targets in different pathways after stimulating FLS cells with conditioned media (Left) and with treating ABT-317 (JAK1i). Stimulation of FLS with conditioned media induces upregulated HIF1A gene and it implicates in promoting glycolysis, angiogenesis, inflammation, and ECM remodeling. The effects of ABT-317 (JAK1i) may downregulate the HIF1A related pathways in stimulated RA FLS cells. (Red color: Upregulated genes; Blue color: Downregulated genes)

Supplementary Tables

Supplementary Table 1. The list of DEGs in Fig 1D

Overlapped genes from Fig. 1C were selected by top overlapped logFC values from each comparison.

Gene	logFC Stim (UP)	logFC ABT317 (DN)
IDO1	15.0	-3.3
GBP5	13.2	-3.5
CCL7	11.6	-4.6
CD38	9.0	-5.4
ASCL2	9.2	-7.2
HCK	8.8	-7.2
TLR2	8.6	-6.3
IL18BP	9.3	-3.5
SECTM1	7.9	-3.1
LGALS9	8.1	-3.4
RUNX3	7.6	-4.4
PCLO	7.9	-3.9
DDX58	7.1	-7.0
CALHM6	6.9	-3.6
CD7	8.0	-4.3
XIRP1	7.2	-3.5
SLAMF8	7.4	-5.3

Supplementary Table 3

DEG between CM-stimulation and ABT-317 1 μ M (Stim) was determined and marked yellow if a false discovery rate meets thresholds ($-\log_{10}(\text{FDR}) \leq 0.1$).

gene	logFC	AveExpr	P.Value	adj.P.Val	hgnc_symbol
ENSG00000002549	4.9064155	9.1089933	3.10E-31	2.96E-27	LAP3
ENSG00000101347	4.4869407	7.5676561	1.55E-27	7.38E-24	SAMHD1
ENSG00000125347	6.2705493	7.3118858	4.47E-26	1.42E-22	IRF1
ENSG00000168394	5.4790462	8.8233853	6.60E-26	1.58E-22	TAP1
ENSG00000173821	3.8478432	9.7201073	7.14E-25	1.36E-21	RNF213
ENSG00000068079	5.1406784	6.7623864	1.26E-24	2.00E-21	IFI35
ENSG00000188313	4.9323125	5.6934181	8.13E-24	1.11E-20	PLSCR1
ENSG00000187608	7.4800588	7.0011027	1.40E-23	1.67E-20	ISG15
ENSG00000140105	5.3030362	11.544957	2.79E-23	2.96E-20	WARS1
ENSG00000100911	3.7690313	8.0424720	4.64E-23	4.43E-20	PSME2
ENSG00000133106	6.9453320	5.6633761	7.11E-22	5.66E-19	EPSTI1
ENSG00000140853	3.4745771	7.0219558	1.06E-21	7.79E-19	NLRC5
ENSG00000135052	2.6495449	9.6096057	1.32E-21	8.98E-19	GOLM1
ENSG00000067066	2.2269259	7.8630571	5.77E-21	3.67E-18	SP100
ENSG00000003402	2.3216416	6.6157385	9.40E-21	5.61E-18	CFLAR
ENSG00000130589	4.4180056	7.4530476	2.85E-20	1.60E-17	HELZ2
ENSG00000060491	2.0588591	7.6395701	4.51E-20	2.39E-17	OGFR
ENSG00000128284	5.8291355	7.2276820	6.67E-20	3.35E-17	APOL3

ENSG0000	8.2442406	7.4024879	1.31E-19	6.25E-17	IL32
0008517	3	1			
ENSG0000	3.3715501	8.7500005	1.76E-19	8.01E-17	STAT1
0115415	8	4			
ENSG0000	2.7268473	7.2151745	2.48E-19	1.08E-16	PML
0140464	3	2			
ENSG0000	7.1906118	5.7687029	6.45E-19	2.68E-16	IFI6
0126709	8	4			
ENSG0000	2.5280147	7.7287967	7.40E-19	2.95E-16	MOV10
0155363	8	2			
ENSG0000	6.7942042	7.3123727	7.72E-19	2.95E-16	IFIT3
0119917	6	1			
ENSG0000	1.4624270	8.3159135	9.28E-19	3.33E-16	PSMA4
0041357	4	8			
ENSG0000	3.5106688	6.3018977	9.60E-19	3.33E-16	RNF19B
0116514	5	5			
ENSG0000	2.7377548	9.3268815	9.75E-19	3.33E-16	OPTN
0123240		9			
ENSG0000	1.9371973	7.9017650	1.10E-18	3.61E-16	CNDP2
0133313	7	8			
ENSG0000	2.0501200	9.3074309	1.49E-18	4.73E-16	ADAR
0160710	4				
ENSG0000	1.6558346	7.0897419	1.71E-18	5.28E-16	DNPEP
0123992	9	2			
ENSG0000	2.5110458	7.5319543	2.91E-18	8.70E-16	WTAP
0146457	9	7			
ENSG0000	9.2602344	4.8270857	3.04E-18	8.80E-16	IL18BP
0137496	6	9			
ENSG0000	2.9966746	5.4818132	4.02E-18	1.13E-15	SHFL
0130813	4	1			
ENSG0000	3.5929010	7.0992436	5.19E-18	1.41E-15	PARP9
0138496	8	7			
ENSG0000	1.3337041	8.6278738	8.21E-18	2.17E-15	KARS1
0065427	6	1			
ENSG0000	1.7282689	7.9477969	8.41E-18	2.17E-15	CNP
0173786	6	4			
ENSG0000	3.2737634	7.7823343	8.81E-18	2.21E-15	STAT2
0170581	9	6			
ENSG0000	3.0747604	5.7391873	1.35E-17	3.30E-15	SP110
0135899		4			
ENSG0000	1.9528417	4.8684397	1.86E-17	4.41E-15	MOB3C
0142961	2	2			
ENSG0000	4.4000824	5.9916573	1.89E-17	4.41E-15	GBP3
0117226	3	5			

ENSG0000	3.2374046	6.1109192	2.43E-17	5.52E-15	TNFRSF14
0157873	2	2			
ENSG0000	1.7529121	8.2488294	2.85E-17	6.32E-15	SELENOM
0198832	2	9			
ENSG0000	6.3800908	6.8349616	3.34E-17	7.25E-15	CXCL3
0163734		1			
ENSG0000	2.2761556	7.0511654	4.15E-17	8.80E-15	CASP4
0196954	9				
ENSG0000	4.6442372	7.7738389	8.81E-17	1.83E-14	TNFAIP3
0118503		1			
ENSG0000	3.1325262	6.9999603	9.52E-17	1.94E-14	PARP12
0059378	8	5			
ENSG0000	6.7336113	8.0766406	1.59E-16	3.11E-14	CCL2
0108691	9	3			
ENSG0000	3.0580787	3.6000130	1.58E-16	3.11E-14	VAMP5
0168899		5			
ENSG0000	6.5222711	6.2759019	1.69E-16	3.22E-14	TYMP
0025708	1	1			
ENSG0000	2.1348138	5.7074197	1.96E-16	3.67E-14	PTPN2
0175354	4	5			
ENSG0000	1.8855053	5.5147835	2.02E-16	3.72E-14	MSRB1
0198736	5				
ENSG0000	1.6716404	7.2679915	3.89E-16	7.00E-14	FAM177A1
0151327	6	3			
ENSG0000	3.8806312	7.1855698	5.00E-16	8.83E-14	SAMD9L
0177409	8	4			
ENSG0000	2.230675	7.1247634	6.77E-16	1.15E-13	XRN1
0114127		9			
ENSG0000	3.2353731	8.5601311	6.75E-16	1.15E-13	SLC39A14
0104635	1	2			
ENSG0000	3.6108008	6.8342793	7.13E-16	1.19E-13	DDX60L
0181381		2			
ENSG0000	2.9966528	4.8285087	7.58E-16	1.25E-13	TRIM69
0185880	5	4			
ENSG0000	3.7915391	5.4445943	8.72E-16	1.41E-13	RHBDF2
0129667	7	6			
ENSG0000	2.9572118	8.6075296	1.29E-15	2.06E-13	TNIP1
0145901	2	2			
ENSG0000	4.8438587	6.2300585	1.42E-15	2.23E-13	TNFAIP2
0185215	2	4			
ENSG0000	3.5979916	5.6958447	1.59E-15	2.45E-13	RIPK2
0104312	1	1			
ENSG0000	8.8127043	6.9232805	1.74E-15	2.64E-13	CD74
0019582	9				

ENSG0000	4.6301709	4.9946202	1.81E-15	2.70E-13	TMEM140
0146859	8				
ENSG0000	7.6705186	4.9561587	2.41E-15	3.54E-13	CTSS
0163131	1	8			
ENSG0000	2.4098530	8.3909559	3.27E-15	4.73E-13	NUB1
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0137767	4	6			
ENSG0000	3.8618442	4.0514536	7.89E-13	7.53E-11	IFI44
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0178860	2	6			
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ENSG0000	1.1954472	5.8676963	3.70E-12	3.18E-10	ODF2L
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0163565	6	3			
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0164136	2	7			
ENSG0000	9.2675184	4.3822450	4.95E-12	4.14E-10	GCH1
0131979	2	3			
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0166741	2	3			
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0177989	5	7			
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0092010		3			
ENSG0000	1.0901487	7.0602354	5.98E-12	4.80E-10	TMED5
0117500	9	8			
ENSG0000	4.4054035	3.0776069	6.20E-12	4.90E-10	UBE2L6
0156587	2	6			
ENSG0000	3.2657420	7.3828637	6.25E-12	4.90E-10	C1QTNF1
0173918	1	6			
ENSG0000	-	9.2894660	6.26E-12	4.90E-10	EIF4B
0063046	1.0576221	6			
ENSG0000	1.4454382	10.759579	6.72E-12	5.22E-10	QSOX1
0116260	5	4			
ENSG0000	3.5629434	6.1079416	7.44E-12	5.73E-10	CSF1
0184371	4	8			
ENSG0000	3.4366294	4.7295179	9.20E-12	7.03E-10	ZC3HAV1
0105939	5	2			
ENSG0000	1.9209674	6.5668159	9.78E-12	7.41E-10	MYD88
0172936	4	8			
ENSG0000	0.8294151	7.1498610	1.11E-11	8.33E-10	PI4K2A
0155252		5			
ENSG0000	-	4.8124730	1.18E-11	8.83E-10	SSX2IP
0117155	2.1652556	8			
ENSG0000	1.6733066	7.2363654	1.27E-11	9.42E-10	B4GALT5
0158470	6	2			

ENSG0000	2.0374599	3.6907587	1.28E-11	9.43E-10	RELA
0173039	5	1			
ENSG0000	5.9370267	3.2929810	1.51E-11	1.10E-09	IL15RA
0134470	5	2			
ENSG0000	2.1394977	5.0254629	1.54E-11	1.12E-09	ALPK1
0073331	5	4			
ENSG0000	-	5.7225677	1.60E-11	1.14E-09	CYREN
0122783	1.5134726	2			
ENSG0000	2.5066757	8.0474593	1.60E-11	1.14E-09	BNIP3
0176171	7	4			
ENSG0000	2.1682601	5.6714221	1.78E-11	1.26E-09	TNFAIP8
0145779	9	9			
ENSG0000	-	7.6093441	1.84E-11	1.29E-09	FAM168B
0152102	1.1323366	9			
ENSG0000	1.3688723	7.3968829	1.92E-11	1.34E-09	BAZ2A
0076108	1	8			
ENSG0000	1.2112659	4.8264177	2.07E-11	1.43E-09	MITD1
0158411	5	5			
ENSG0000	7.8575458	4.1532372	2.09E-11	1.43E-09	OASL
0135114	2	8			
ENSG0000	1.0950328	7.8401252	2.45E-11	1.67E-09	TPGS2
0134779		3			
ENSG0000	2.4352157	7.8192936	2.90E-11	1.96E-09	ST3GAL1
0008513	2	2			
ENSG0000	0.9883013	6.3219987	3.40E-11	2.29E-09	VRK2
0028116	9	1			
ENSG0000	1.5446584	6.0308116	3.57E-11	2.38E-09	C19orf12
0131943	9	2			
ENSG0000	-	8.5872064	3.91E-11	2.59E-09	EIF3L
0100129	1.1303233	7			
ENSG0000	1.1906024	7.6758382	4.06E-11	2.67E-09	C4orf3
0164096	9	2			
ENSG0000	1.3457634	6.2023695	4.16E-11	2.72E-09	DENND1A
0119522	3	8			
ENSG0000	1.4350494	6.1134295	4.53E-11	2.94E-09	PPP3CC
0120910	7				
ENSG0000	1.3168080	6.6524285	5.13E-11	3.31E-09	SPPL2A
0138600	1	4			
ENSG0000	5.4905459	4.6678050	5.28E-11	3.38E-09	SLC15A3
0110446	9	4			
ENSG0000	-	4.7021501	5.31E-11	3.38E-09	TYRO3
0092445	2.2267517	5			
ENSG0000	1.1744520	5.4174865	5.74E-11	3.63E-09	LRCH1
0136141	5	4			

ENSG0000	1.9516461	9.5652337	5.82E-11	3.65E-09	PGK1
0102144	3	8			
ENSG0000	1.4140680	7.0911294	6.33E-11	3.94E-09	RUNX1
0159216	4	5			
ENSG0000	1.6779762	9.2233654	6.36E-11	3.94E-09	PALM2AKA
0157654	7				P2
ENSG0000	-	5.1707377	6.52E-11	4.02E-09	HSPA12A
0165868	1.9206383	1			
ENSG0000	0.9779610	7.1866243	6.77E-11	4.14E-09	RIOK3
0101782	2	9			
ENSG0000	-	5.0012906	7.04E-11	4.28E-09	AGBL5
0084693	1.1515569	4			
ENSG0000	1.1798127	6.0942965	7.17E-11	4.33E-09	USF1
0158773	1	8			
ENSG0000	2.9826005	4.1280349	7.23E-11	4.34E-09	BTN3A3
0111801	5	5			
ENSG0000	-	8.2572778	7.38E-11	4.41E-09	SRP9
0143742	0.5749041	6			
ENSG0000	1.0846127	7.5475415	7.56E-11	4.49E-09	PTPRK
0152894	1				
ENSG0000	-1.023	8.8780329	7.67E-11	4.52E-09	TKT
0163931		3			
ENSG0000	1.4924185	5.2234246	7.79E-11	4.56E-09	ELMO2
0062598	3	1			
ENSG0000	1.5080962	5.5124729	9.05E-11	5.27E-09	MFSD12
0161091	5	7			
ENSG0000	1.0817656	6.9119452	1.05E-10	6.08E-09	PSEN1
0080815	1	1			
ENSG0000	8.4166923	2.3783577	1.12E-10	6.45E-09	ETV7
0010030	2	1			
ENSG0000	-	6.2278248	1.19E-10	6.83E-09	PHTF2
0006576	1.2557862	6			
ENSG0000	1.5017044	5.7065241	1.32E-10	7.49E-09	STAT6
0166888	8	5			
ENSG0000	-	8.3550361	1.34E-10	7.55E-09	BACE1
0186318	1.0093116	2			
ENSG0000	2.3566237	5.0809138	1.40E-10	7.87E-09	PSMB10
0205220	1	7			
ENSG0000	-0.740017	7.5016081	1.41E-10	7.88E-09	PPP2R5C
0078304		3			
ENSG0000	3.1185497	7.5971523	1.46E-10	8.13E-09	SAT1
0130066	6	1			
ENSG0000	2.4412090	4.1395956	1.48E-10	8.15E-09	FLT3LG
0090554	6	6			

ENSG0000 0168404	3.4093302	2.7978428	1.48E-10	8.15E-09	MLKL
ENSG0000 0095794	1.3745229 9	5.0234205 6	1.49E-10	8.15E-09	CREM
ENSG0000 0111817	1.5032823 1	7.4095600 4	1.54E-10	8.37E-09	DSE
ENSG0000 0158985	1.1756568 7	5.5282890 5	1.66E-10	8.94E-09	CDC42SE2
ENSG0000 0083799	2.0417028	7.3098986	1.88E-10	1.01E-08	CYLD
ENSG0000 0100949	0.8914105 1	5.6292846 1	1.97E-10	1.05E-08	RABGGTA
ENSG0000 0158714	7.3865367 9	- 1.2185749	1.97E-10	1.05E-08	SLAMF8
ENSG0000 0111452	4.3107857 5	5.2233071 1	2.00E-10	1.05E-08	ADGRD1
ENSG0000 0107758	- 0.6966643	7.0491699 3	2.09E-10	1.10E-08	PPP3CB
ENSG0000 0155287	2.8132086 1	4.5683791 9	2.16E-10	1.13E-08	SLC25A28
ENSG0000 0177674	1.4907895 3	5.3499958 1	2.23E-10	1.16E-08	AGTRAP
ENSG0000 0048991	- 1.3453199	6.1098503 7	2.26E-10	1.17E-08	R3HDM1
ENSG0000 0137959	7.1169677 8	3.9116759	2.34E-10	1.20E-08	IFI44L
ENSG0000 0108771	3.9281420 9	2.9999444 5	2.37E-10	1.21E-08	DHX58
ENSG0000 0133028	0.9116984 4	5.6637515 9	2.71E-10	1.36E-08	SCO1
ENSG0000 0089009	- 1.0085458	10.288955 3	2.71E-10	1.36E-08	RPL6
ENSG0000 0109046	1.1730225 8	7.2845208 2	2.94E-10	1.47E-08	WSB1
ENSG0000 0142089	5.2371260 6	1.4243519 9	3.09E-10	1.54E-08	IFITM3
ENSG0000 0196371	0.8528588 3	5.2073799 3	3.59E-10	1.78E-08	FUT4
ENSG0000 0102524	7.8269558 5	3.8228004 4	3.65E-10	1.80E-08	TNFSF13B
ENSG0000 0188021	0.7574359 1	7.0482575 6	3.75E-10	1.83E-08	UBQLN2
ENSG0000 0005302	2.0745662 3	4.8301239 1	4.25E-10	2.07E-08	MSL3

ENSG0000	3.0067091	4.7784560	4.47E-10	2.17E-08	HAPLN3
0140511	6	7			
ENSG0000	1.4966002	5.3720848	4.60E-10	2.22E-08	DOP1A
0083097	8	3			
ENSG0000	0.8784987	6.5443302	5.09E-10	2.44E-08	ENY2
0120533	7	7			
ENSG0000	2.4767151	6.7997806	5.21E-10	2.49E-08	KIAA1217
0120549	1	9			
ENSG0000	-	9.0644645	5.42E-10	2.57E-08	NAP1L1
0187109	0.8875691	6			
ENSG0000	2.4001427	8.8807403	5.78E-10	2.73E-08	RND3
0115963	8	9			
ENSG0000	1.7567953	5.4556312	5.82E-10	2.74E-08	CYB5A
0166347		6			
ENSG0000	1.1461021	6.5749819	6.52E-10	3.05E-08	SAMD4A
0020577	1	1			
ENSG0000	1.0041687	6.4947687	6.68E-10	3.11E-08	RAP2C
0123728	9				
ENSG0000	0.9611533	5.4000464	6.81E-10	3.16E-08	USP42
0106346	3				
ENSG0000	1.0543169	7.9878833	6.98E-10	3.22E-08	CALCOCO
0136436	5	2			2
ENSG0000	7.6300717	-	7.72E-10	3.55E-08	RSAD2
0134321		0.4192228			
ENSG0000	1.5751907	5.5163201	7.79E-10	3.56E-08	TMEM219
0149932	6	4			
ENSG0000	0.9425849	5.8193198	8.04E-10	3.65E-08	SLC9A8
0197818	4	1			
ENSG0000	-	9.7874378	8.14E-10	3.68E-08	RPL5
0122406	0.8335476				
ENSG0000	1.7025659	5.7818925	9.40E-10	4.23E-08	TMX1
0139921	2	9			
ENSG0000	-	9.3846266	9.55E-10	4.28E-08	RPL23
0125691	0.9609251	9			
ENSG0000	6.0892026	-	9.72E-10	4.34E-08	SOCS1
0185338	9	0.6623023			
ENSG0000	1.0712943	6.6749511	1.01E-09	4.47E-08	PARP3
0041880	9	6			
ENSG0000	1.1628959	4.7340127	1.02E-09	4.53E-08	FAM222B
0173065	5	9			
ENSG0000	1.3409911	6.9148426	1.05E-09	4.62E-08	LGALS8
0116977	1	4			
ENSG0000	1.8326763	5.5855222	1.05E-09	4.62E-08	STOM
0148175	6	5			

ENSG0000	1.3744889	5.6749763	1.09E-09	4.74E-08	SERPINB8
0166401	7	6			
ENSG0000	-	7.1692214	1.10E-09	4.77E-08	SLC7A11
0151012	2.4956192				
ENSG0000	3.1502975	6.1841239	1.15E-09	4.99E-08	NFKBIZ
0144802		5			
ENSG0000	-	5.7422805	1.24E-09	5.32E-08	SMARCD2
0108604	1.0688544	9			
ENSG0000	1.1698859	7.3088094	1.29E-09	5.51E-08	RNF24
0101236	3	6			
ENSG0000	-	4.1687835	1.32E-09	5.57E-08	TIAM1
0156299	2.1999734	2			
ENSG0000	1.9814861	4.2259733	1.31E-09	5.57E-08	ZCCHC2
0141664	9	9			
ENSG0000	-	4.895201	1.32E-09	5.57E-08	NPM3
0107833	1.9327486				
ENSG0000	1.3560180	8.5345614	1.32E-09	5.57E-08	H1-0
0189060	1	2			
ENSG0000	1.4786394	4.8246881	1.44E-09	6.04E-08	RBMS2
0076067	2	4			
ENSG0000	6.5344169	5.0414527	1.46E-09	6.08E-08	PARP14
0173193	7	9			
ENSG0000	1.8998822	2.9507440	1.61E-09	6.68E-08	PSEN2
0143801	8	8			
ENSG0000	1.4167740	8.3953807	1.66E-09	6.87E-08	STAT3
0168610	7	3			
ENSG0000	1.5603853	5.6302829	1.68E-09	6.93E-08	NUDCD1
0120526	6	3			
ENSG0000	7.9188608	4.3719248	1.69E-09	6.94E-08	CIITA
0179583	1	5			
ENSG0000	4.5985077	1.6940853	1.76E-09	7.18E-08	GSAP
0186088	5	3			
ENSG0000	2.0113277	4.2206052	1.82E-09	7.38E-08	HEXD
0169660	8	3			
ENSG0000	1.2354728	5.5775403	1.89E-09	7.64E-08	ATXN7
0163635	6	2			
ENSG0000	0.7651698	9.0974878	1.95E-09	7.85E-08	MGAT1
0131446	5	3			
ENSG0000	0.7371833	6.5568377	2.59E-09	1.04E-07	TLK2
0146872	1	2			
ENSG0000	0.9875067	8.2158646	2.61E-09	1.04E-07	FNDC3B
0075420	1	2			
ENSG0000	2.2067324	6.1850733	2.63E-09	1.05E-07	STAT5A
0126561	8	6			

ENSG0000 0185104	-0.871196	5.4848005	2.95E-09	1.17E-07	FAF1
ENSG0000 0143106	0.9948059 9	7.7125069 6	3.12E-09	1.23E-07	PSMA5
ENSG0000 0277147	2.1183494 9	3.5665253 5	3.14E-09	1.23E-07	LINC00869
ENSG0000 0160767	1.1897113 1	6.246504	3.24E-09	1.27E-07	FAM189B
ENSG0000 0114209	0.7920279	6.2907841	3.31E-09	1.29E-07	PDCD10
ENSG0000 0113594	1.5963431 4	5.7095316 6	3.34E-09	1.30E-07	LIFR
ENSG0000 0153029	1.7815020 5	6.7258373 7	3.37E-09	1.30E-07	MR1
ENSG0000 0089351	1.9139417 1	7.0418027 3	3.50E-09	1.35E-07	GRAMD1A
ENSG0000 0160209	1.2067545 4	6.5748876 4	3.56E-09	1.37E-07	PDXK
ENSG0000 0089006	- 0.9445341	7.0849458 3	3.65E-09	1.39E-07	SNX5
ENSG0000 0196305	- 1.4566894	9.3830735 2	3.82E-09	1.45E-07	IARS1
ENSG0000 0145725	- 1.0527675	6.6421399 5	3.88E-09	1.47E-07	PPIP5K2
ENSG0000 0110911	1.8800718 9	6.9880709	4.04E-09	1.53E-07	SLC11A2
ENSG0000 0165949	5.7512282	4.0446575 8	4.11E-09	1.54E-07	IFI27
ENSG0000 0175224	0.8600537	7.6110624 5	4.25E-09	1.59E-07	ATG13
ENSG0000 0177542	2.4493270 5	5.8766463 3	4.36E-09	1.63E-07	SLC25A22
ENSG0000 0107223	1.1106442 1	5.1433585 8	4.46E-09	1.66E-07	EDF1
ENSG0000 0157224	1.0341612 7	5.9657797	4.66E-09	1.72E-07	CLDN12
ENSG0000 0056972	2.0427967 1	6.5938183 4	4.78E-09	1.76E-07	TRAF3IP2
ENSG0000 0145147	2.9241745 1	6.1341607 5	5.08E-09	1.85E-07	SLIT2
ENSG0000 0149131	4.1073886 6	6.9457048 2	5.06E-09	1.85E-07	SERPING1
ENSG0000 0168961	8.1444002 3	2.8685206 1	5.05E-09	1.85E-07	LGALS9

ENSG0000	3.2726980	2.1456343	5.25E-09	1.91E-07	TCAF2
0170379	5	6			
ENSG0000	1.0175705	7.1820173	5.48E-09	1.98E-07	CHD8
0100888	2	4			
ENSG0000	1.6178122	5.0303738	5.72E-09	2.06E-07	TMEM63B
0137216		7			
ENSG0000	0.8615208	6.1679515	5.83E-09	2.09E-07	NDUFA9
0139180	8	5			
ENSG0000	0.7871153	7.7976782	6.30E-09	2.25E-07	TMEM248
0106609	6	1			
ENSG0000	-	5.5774075	6.60E-09	2.35E-07	COA1
0106603	0.9091449				
ENSG0000	0.8657915	9.0959568	6.61E-09	2.35E-07	HM13
0101294	3				
ENSG0000	-	9.3702872	6.91E-09	2.44E-07	HMGB1
0189403	0.8685504	5			
ENSG0000	4.0846858	5.3404993	7.15E-09	2.52E-07	NAMPT
0105835	9	5			
ENSG0000	7.7715368	4.6656815	7.50E-09	2.63E-07	ISG20
0172183	3	6			
ENSG0000	2.3253589	4.0816122	7.88E-09	2.76E-07	TRAFFD1
0135148	9	3			
ENSG0000	-	5.1141069	7.98E-09	2.78E-07	C20orf27
0101220	1.5442371	9			
ENSG0000	3.5850417	5.4377686	8.64E-09	3.00E-07	GGT5
0099998	2	3			
ENSG0000	1.6941060	4.2804760	8.72E-09	3.02E-07	TREX1
0213689	1	6			
ENSG0000	1.8748449	2.9977760	9.69E-09	3.33E-07	PCED1A
0132635	4	4			
ENSG0000	1.621909	4.6086471	9.97E-09	3.41E-07	SLFN12
0172123		8			
ENSG0000	-	7.6291476	1.02E-08	3.49E-07	TMPO
0120802	2.2502523	8			
ENSG0000	-	5.0656418	1.04E-08	3.52E-07	TACC2
0138162	1.6387644	4			
ENSG0000	1.2132293	7.0605219	1.06E-08	3.60E-07	GPD2
0115159	3	9			
ENSG0000	3.1812306	5.0342642	1.08E-08	3.66E-07	STEAP2
0157214	4	4			
ENSG0000	1.7079011	3.2285728	1.09E-08	3.68E-07	PHF11
0136147	9	8			
ENSG0000	0.6691310	9.4654443	1.13E-08	3.78E-07	APP
0142192	8	7			

ENSG0000	2.4726236	3.4831932	1.13E-08	3.79E-07	PTPRE
0132334	7	1			
ENSG0000	13.233588	5.2539266	1.15E-08	3.83E-07	GBP5
0154451	6	1			
ENSG0000	2.4011735	4.5272512	1.16E-08	3.83E-07	PNRC1
0146278	5	2			
ENSG0000	-	8.8077544	1.18E-08	3.88E-07	EEF1B2
0114942	0.8611715	9			
ENSG0000	1.7851126	3.3867621	1.20E-08	3.94E-07	UBA7
0182179	9	1			
ENSG0000	-	3.8240138	1.20E-08	3.95E-07	PDE1A
0115252	3.4001177	5			
ENSG0000	-	4.0835191	1.24E-08	4.04E-07	PLCD3
0161714	2.7349643	9			
ENSG0000	5.2203790	2.9968886	1.24E-08	4.04E-07	BIRC3
0023445	8	6			
ENSG0000	-	7.0350587	1.25E-08	4.06E-07	SMC4
0113810	2.6176067	1			
ENSG0000	-	8.8047018	1.27E-08	4.12E-07	HSPB7
0173641	3.2815534	4			
ENSG0000	0.7287526	8.1798491	1.28E-08	4.14E-07	SAP18
0150459	3	6			
ENSG0000	2.0190539	4.7159307	1.32E-08	4.26E-07	B2M
0166710	6	4			
ENSG0000	-	6.6134866	1.37E-08	4.38E-07	ODF2
0136811	1.1378424	2			
ENSG0000	1.8395635	3.5109383	1.44E-08	4.58E-07	BEST1
0167995	2	2			
ENSG0000	-	5.6230975	1.44E-08	4.58E-07	KMT5A
0183955	1.1798614	3			
ENSG0000	0.9377084	10.146826	1.52E-08	4.81E-07	B4GALT1
0086062	7	4			
ENSG0000	7.4158736	1.3903432	1.57E-08	4.96E-07	MX2
0183486	6				
ENSG0000	2.3120057	2.2908982	1.61E-08	5.07E-07	DENND2D
0162777		1			
ENSG0000	-	3.7870693	1.66E-08	5.23E-07	IMPDH2
0178035	1.9605741	4			
ENSG0000	-	6.4192066	1.71E-08	5.34E-07	URI1
0105176	0.7706193	6			
ENSG0000	-	7.5279543	1.72E-08	5.37E-07	MAZ
0103495	0.8510585	8			
ENSG0000	2.8669252	4.3708209	1.76E-08	5.48E-07	PARP10
0178685		4			

ENSG0000	1.2847507	9.1256067	1.78E-08	5.52E-07	PDE4DIP
0178104	9	6			
ENSG0000	1.3101723	7.4674152	1.84E-08	5.68E-07	ADPGK
0159322	4	2			
ENSG0000	-	3.5700635	1.87E-08	5.75E-07	REXO5
0005189	2.6381132	5			
ENSG0000	2.5359432	6.2646159	1.89E-08	5.75E-07	MDK
0110492	7	5			
ENSG0000	-	8.4859172	1.88E-08	5.75E-07	MBNL1
0152601	0.7783124	1			
ENSG0000	7.2444842	1.8053222	1.89E-08	5.75E-07	XIRP1
0168334	4	3			
ENSG0000	1.8863347	2.0831870	1.90E-08	5.78E-07	ZDHHC23
0184307	5	7			
ENSG0000	2.7338820	4.9199715	1.91E-08	5.78E-07	GSDMD
0104518	6	5			
ENSG0000	-	7.0587905	1.92E-08	5.81E-07	PHKB
0102893	0.7622899	5			
ENSG0000	-	5.5606624	1.93E-08	5.82E-07	FMN2
0155816	1.7520457	2			
ENSG0000	2.3540841	6.8128819	2.03E-08	6.08E-07	SOCS3
0184557	8				
ENSG0000	10.024982	3.6327682	2.03E-08	6.08E-07	CMPK2
0134326	4	7			
ENSG0000	-	5.3091198	2.07E-08	6.17E-07	PIGX
0163964	1.0155333	8			
ENSG0000	-	6.0662559	2.21E-08	6.56E-07	IFFO1
0010295	1.0750937	7			
ENSG0000	1.7596079	6.5349124	2.25E-08	6.67E-07	LPXN
0110031	1	3			
ENSG0000	-	3.6373959	2.26E-08	6.69E-07	FAM149A
0109794	1.9370831	1			
ENSG0000	1.3734568	5.887419	2.28E-08	6.71E-07	IRF3
0126456	2				
ENSG0000	2.1581335	6.6635196	2.36E-08	6.94E-07	LRIG1
0144749	3	5			
ENSG0000	-	6.9956246	2.40E-08	7.03E-07	MYH10
0133026	1.9477929	2			
ENSG0000	1.4839570	6.0839903	2.57E-08	7.52E-07	PCNX1
0100731	5	1			
ENSG0000	1.0561622	6.7395770	2.90E-08	8.44E-07	SIK3
0160584	2	3			
ENSG0000	0.9954166	7.7586838	3.04E-08	8.82E-07	JADE2
0043143	8				

ENSG0000	0.8411331	5.9210793	3.18E-08	9.19E-07	PIK3C3
0078142	1	4			
ENSG0000	0.6260083	7.3706594	3.26E-08	9.41E-07	ABI1
0136754	8				
ENSG0000	0.7536260	7.4073912	3.27E-08	9.41E-07	BSDC1
0160058	7	9			
ENSG0000	2.5302925	1.9351300	3.38E-08	9.67E-07	MAP2
0078018	4	8			
ENSG0000	0.9966654	5.1052808	3.37E-08	9.67E-07	CXorf38
0185753	8	4			
ENSG0000	-	5.3612837	3.40E-08	9.70E-07	CILK1
0112144	1.0356571	4			
ENSG0000	1.1499218	7.8848275	3.50E-08	9.95E-07	PTPRA
0132670	7	3			
ENSG0000	1.8295191	2.8973315	3.61E-08	1.02E-06	LHFPL6
0183722	9	1			
ENSG0000	-	6.5469085	3.82E-08	1.08E-06	AKR7A2
0053371	0.7704711	8			
ENSG0000	2.0610487	2.5187894	3.91E-08	1.10E-06	AVIL
0135407	2	5			
ENSG0000	0.6703863	6.1745564	3.94E-08	1.11E-06	RAB18
0099246	9	8			
ENSG0000	-	5.3850106	4.07E-08	1.14E-06	NCAPD2
0010292	3.2279176	2			
ENSG0000	-	10.366684	4.13E-08	1.15E-06	NPM1
0181163	0.8857921	5			
ENSG0000	-	4.6166294	4.15E-08	1.16E-06	FBF1
0188878	1.1467343	4			
ENSG0000	-	7.6936299	4.40E-08	1.22E-06	ATP5PB
0116459	0.6570395	1			
ENSG0000	2.2480808	5.6360872	4.57E-08	1.27E-06	MCC
0171444	3	7			
ENSG0000	1.9866485	5.5383566	4.61E-08	1.27E-06	AK4
0162433	7	3			
ENSG0000	4.6986967	0.4567043	4.62E-08	1.27E-06	IFIT1
0185745		1			
ENSG0000	1.1553862	5.8554415	4.70E-08	1.29E-06	TICAM1
0127666	7	4			
ENSG0000	-	9.2031940	4.78E-08	1.31E-06	LDHB
0111716	0.5957246	7			
ENSG0000	1.3922735	4.3387640	5.25E-08	1.43E-06	DYRK4
0010219	5	6			
ENSG0000	-	4.4989026	5.30E-08	1.44E-06	LSM5
0106355	1.1461027	5			

ENSG0000	-	5.4210544	5.41E-08	1.47E-06	POLA1
0101868	1.7005914	4			
ENSG0000	0.7222940	6.2834472	5.73E-08	1.55E-06	TMUB2
0168591	1				
ENSG0000	2.5250757	5.2194400	5.79E-08	1.56E-06	TRIM22
0132274	8	2			
ENSG0000	1.1897544	5.1330086	5.83E-08	1.57E-06	CASP8
0064012		5			
ENSG0000	-0.887121	7.1413014	5.95E-08	1.59E-06	MAP4K5
0012983		5			
ENSG0000	1.3777127	8.0868265	5.94E-08	1.59E-06	MPZL1
0197965	8	3			
ENSG0000	-	6.3726903	6.00E-08	1.60E-06	NUSAP1
0137804	3.5671356	1			
ENSG0000	-	7.3084108	6.00E-08	1.60E-06	NUP188
0095319	0.7781188	1			
ENSG0000	5.3936344	4.6408759	6.14E-08	1.63E-06	CXCL1
0163739	2	3			
ENSG0000	2.4443037	2.2305143	6.41E-08	1.69E-06	STAP2
0178078	6				
ENSG0000	-	4.0598942	6.47E-08	1.71E-06	KRT10
0186395	1.3674906	7			
ENSG0000	1.2123242	8.2108037	6.55E-08	1.72E-06	CLIP2
0106665	4				
ENSG0000	-	4.5142139	6.71E-08	1.76E-06	GPRASP2
0158301	1.5096796	9			
ENSG0000	-0.659616	6.1441973	6.87E-08	1.80E-06	MOCS2
0164172		6			
ENSG0000	0.7231318	8.9666098	7.03E-08	1.83E-06	UBE2D3
0109332	3	6			
ENSG0000	6.0371407	4.0032486	7.05E-08	1.84E-06	POU2F2
0028277	6	9			
ENSG0000	-	4.3180563	7.12E-08	1.85E-06	TIMM21
0075336	1.3068648	4			
ENSG0000	-	7.6750103	7.15E-08	1.85E-06	POLD2
0106628	0.7704941	3			
ENSG0000	1.3826134	8.5275881	7.44E-08	1.92E-06	HIF1A
0100644	3	5			
ENSG0000	-	5.0459651	7.63E-08	1.96E-06	DIXDC1
0150764	1.8579984	5			
ENSG0000	0.8079610	6.0807085	7.63E-08	1.96E-06	PPP2R2A
0221914	1	6			
ENSG0000	0.9372344	6.7381004	7.66E-08	1.96E-06	BCL2L13
0099968	6				

ENSG0000	0.7486752	6.6141049	8.09E-08	2.07E-06	ZMIZ2
0122515	3	7			
ENSG0000	-	6.0066547	8.20E-08	2.09E-06	KIF20B
0138182	2.8865253	3			
ENSG0000	0.7916180	5.7358605	8.29E-08	2.10E-06	CTDP1
0060069	6	7			
ENSG0000	1.0721443	6.9030906	8.36E-08	2.12E-06	RSU1
0148484	6	1			
ENSG0000	1.6785058	3.7041065	8.39E-08	2.12E-06	MMAA
0151611	6	2			
ENSG0000	3.6971933	5.1092352	8.45E-08	2.13E-06	PLOD2
0152952	2	3			
ENSG0000	-1.778661	3.6231498	8.54E-08	2.15E-06	GGCT
0006625		5			
ENSG0000	1.1106829	6.2625409	8.71E-08	2.18E-06	AFF1
0172493	8	3			
ENSG0000	-	5.6560762	9.07E-08	2.27E-06	DEPDC1
0024526	3.6374732	4			
ENSG0000	1.7694300	4.6923049	9.46E-08	2.36E-06	PAFAH1B1
0007168	9	4			
ENSG0000	-	5.3571321	9.94E-08	2.47E-06	PRR11
0068489	3.3162993	1			
ENSG0000	-	8.0527841	1.03E-07	2.56E-06	HECTD1
0092148	0.8233724	8			
ENSG0000	1.5167163	3.7954557	1.07E-07	2.64E-06	SCYL3
0000457	5	1			
ENSG0000	-	5.2144888	1.10E-07	2.71E-06	RPUSD3
0156990	0.7603908	8			
ENSG0000	1.4265787	5.4202607	1.12E-07	2.76E-06	FADS3
0221968	8	7			
ENSG0000	-	3.6153839	1.13E-07	2.77E-06	LRRC20
0172731	1.7239883	6			
ENSG0000	-	6.0411898	1.20E-07	2.93E-06	ATP5MC1
0159199	0.8095836				
ENSG0000	-	4.2676293	1.20E-07	2.93E-06	ATRIP
0164053	1.3771655	5			
ENSG0000	-3.181018	6.8958051	1.23E-07	3.00E-06	KIF23
0137807					
ENSG0000	-	6.2991135	1.25E-07	3.03E-06	AURKA
0087586	3.4350297	9			
ENSG0000	4.2972216	2.9819350	1.29E-07	3.13E-06	TNS3
0136205		8			
ENSG0000	-	9.3853509	1.34E-07	3.25E-06	RPS7
0171863	0.6067288	6			

ENSG0000	-	4.8829412	1.35E-07	3.26E-06	RACGAP1
0161800	2.9166525	9			
ENSG0000	-	5.9316142	1.39E-07	3.34E-06	VPS45
0136631	0.6752056	6			
ENSG0000	1.9655232	4.2380464	1.41E-07	3.37E-06	SYTL3
0164674	4	3			
ENSG0000	-	6.4716833	1.43E-07	3.40E-06	CCNB1
0134057	3.1712019	8			
ENSG0000	1.8386189	5.9501552	1.42E-07	3.40E-06	DENND5A
0184014		8			
ENSG0000	-	6.7295477	1.46E-07	3.46E-06	BAG2
0112208	1.2067157	2			
ENSG0000	1.3358559	8.5330717	1.46E-07	3.46E-06	P4HA1
0122884	7	9			
ENSG0000	0.7219528	6.6251379	1.50E-07	3.56E-06	UBR2
0024048	7	8			
ENSG0000	1.3447836	8.1167851	1.53E-07	3.62E-06	ADGRE5
0123146	9	1			
ENSG0000	1.5764532	6.6598270	1.55E-07	3.65E-06	CD47
0196776	4	4			
ENSG0000	1.6385873	4.4343084	1.55E-07	3.65E-06	PSTPIP2
0152229	9	8			
ENSG0000	2.0079720	2.6438851	1.61E-07	3.75E-06	RNF207
0158286	4	9			
ENSG0000	1.0999499	6.4458096	1.60E-07	3.75E-06	PHLDB2
0144824	5	7			
ENSG0000	-	9.7699179	1.61E-07	3.75E-06	MXRA8
0162576	0.9527714	9			
ENSG0000	5.4093462	0.1240637	1.60E-07	3.75E-06	IL12RB1
0096996	3				
ENSG0000	1.3056535	5.8378352	1.62E-07	3.75E-06	TIA1
0116001	9	1			
ENSG0000	-	6.1376128	1.63E-07	3.79E-06	ANLN
0011426	3.7759286	8			
ENSG0000	1.0940120	6.9550839	1.65E-07	3.82E-06	MRAS
0158186	3	7			
ENSG0000	1.8773578	8.2382504	1.68E-07	3.88E-06	FST
0134363	8	3			
ENSG0000	-	6.9197229	1.69E-07	3.88E-06	FAM168A
0054965	0.7762312	8			
ENSG0000	2.0145244	2.7799564	1.70E-07	3.90E-06	EID3
0255150	4	1			
ENSG0000	0.6474534	8.6663692	1.70E-07	3.90E-06	CDV3
0091527	9	7			

ENSG0000	1.8361808	3.4874323	1.73E-07	3.95E-06	ZNF274
0171606	1	5			
ENSG0000	0.7601031	6.2671609	1.83E-07	4.17E-06	COQ10B
0115520	4	9			
ENSG0000	-	4.4375297	1.84E-07	4.18E-06	CKLF
0217555	1.2780067	9			
ENSG0000	1.8828288	10.792017	1.85E-07	4.19E-06	TNC
0041982		1			
ENSG0000	-	6.5558646	1.89E-07	4.28E-06	MAPK9
0050748	0.6573416	2			
ENSG0000	-	5.5969907	1.91E-07	4.32E-06	FOXRED2
0100350	1.3342999	4			
ENSG0000	1.0887063	4.7610454	1.94E-07	4.36E-06	CDS2
0101290	5	7			
ENSG0000	0.9569228	6.0458375	1.95E-07	4.38E-06	SLC30A7
0162695	3	4			
ENSG0000	2.5226971	9.6882958	1.96E-07	4.39E-06	C1S
0182326	3	9			
ENSG0000	-	7.9346443	2.01E-07	4.50E-06	SH3D19
0109686	1.3116589	9			
ENSG0000	5.1521331	0.8309522	2.03E-07	4.52E-06	CD40
0101017	2	3			
ENSG0000	1.0704158	5.7540684	2.04E-07	4.55E-06	PNPT1
0138035	6	6			
ENSG0000	-	5.8400987	2.07E-07	4.61E-06	TMEM106
0134291	1.6550534	3			C
ENSG0000	-	4.8371611	2.08E-07	4.61E-06	CEP85
0130695	1.9559449				
ENSG0000	7.8518124	4.4118838	2.09E-07	4.63E-06	SECTM1
0141574	5	6			
ENSG0000	0.8684718	7.5380652	2.13E-07	4.70E-06	GUCD1
0138867		6			
ENSG0000	1.8000946	2.1641289	2.16E-07	4.75E-06	APOBEC3F
0128394	1	3			
ENSG0000	0.8032954	6.7166810	2.23E-07	4.91E-06	TMBIM4
0155957	4	1			
ENSG0000	1.0188138	5.0040004	2.28E-07	5.00E-06	ADPRH
0144843	9	9			
ENSG0000	-	6.6267759	2.34E-07	5.11E-06	ZNF664
0179195	1.0868283	8			
ENSG0000	1.5769391	6.8941400	2.35E-07	5.12E-06	LITAF
0189067		2			
ENSG0000	4.1993807	0.7517128	2.36E-07	5.13E-06	IRF2
0168310	4	7			

ENSG0000	6.1837162	3.5160816	2.49E-07	5.40E-06	MX1
0157601	8	9			
ENSG0000	0.5427029	6.5991193	2.51E-07	5.42E-06	PSMG2
0128789		7			
ENSG0000	3.5370898	0.0541720	2.53E-07	5.45E-06	ZNF80
0174255	6	3			
ENSG0000	1.3610387	4.2736912	2.54E-07	5.46E-06	NPC1
0141458					
ENSG0000	3.0046422	0.8630890	2.58E-07	5.53E-06	FPR1
0171051		6			
ENSG0000	0.8671871	6.3502413	2.58E-07	5.53E-06	PEDS1
0240849	2				
ENSG0000	-	9.4259758	2.65E-07	5.67E-06	RPLP0
0089157	1.1632925	9			
ENSG0000	0.7470677	8.6912714	2.67E-07	5.69E-06	XPO6
0169180	1	1			
ENSG0000	-	6.7076562	2.69E-07	5.72E-06	H2AZ2
0105968	1.2992471	8			
ENSG0000	1.1145499	8.9069760	2.72E-07	5.78E-06	NUCB1
0104805	4	7			
ENSG0000	4.4010607	2.9512991	2.74E-07	5.80E-06	OAS3
0111331	4				
ENSG0000	2.7500293	0.9550562	2.80E-07	5.92E-06	FAM124A
0150510	2	2			
ENSG0000	1.9284009	1.8448248	2.85E-07	6.01E-06	CBLN3
0139899	1	5			
ENSG0000	-	7.8221891	2.87E-07	6.03E-06	SUN1
0164828	0.7738161	6			
ENSG0000	-	4.3577452	2.87E-07	6.03E-06	SSH2
0141298	1.4923747	5			
ENSG0000	0.9377816	9.3294026	3.02E-07	6.33E-06	TNS1
0079308	4	7			
ENSG0000	-2.448955	4.9059943	3.06E-07	6.39E-06	RASA4B
0170667		8			
ENSG0000	1.1532677	4.4924695	3.14E-07	6.55E-06	TMEM179B
0185475	8				
ENSG0000	1.4668037	6.7432843	3.16E-07	6.58E-06	TGIF1
0177426	4	4			
ENSG0000	-	6.6434119	3.18E-07	6.58E-06	DPY19L1
0173852	0.7783426	2			
ENSG0000	-	7.7673087	3.18E-07	6.58E-06	MAP3K20
0091436	1.0322927	5			
ENSG0000	2.9541289	2.1894954	3.22E-07	6.64E-06	TMEM229B
0198133	2				

ENSG0000	-	6.2667041	3.23E-07	6.64E-06	PRC1
0198901	2.7342055	5			
ENSG0000	2.8800546	4.3131331	3.31E-07	6.80E-06	SLC16A4
0168679	4	1			
ENSG0000	-1.562704	5.6959981	3.41E-07	6.98E-06	ZWILCH
0174442		3			
ENSG0000	1.2534102	9.9141271	3.48E-07	7.11E-06	FGF2
0138685	5	9			
ENSG0000	-	3.1413188	3.51E-07	7.12E-06	DSTNP2
0248593	1.2539088	4			
ENSG0000	-	5.0970385	3.51E-07	7.12E-06	CDCA2
0184661	1.8352991				
ENSG0000	-	4.9722943	3.50E-07	7.12E-06	CMSS1
0184220	1.2035705	7			
ENSG0000	-	5.4949363	3.54E-07	7.18E-06	EXTL2
0162694	0.8505405	5			
ENSG0000	-	0.3194300	3.63E-07	7.34E-06	RTKN2
0182010	5.0463223	6			
ENSG0000	1.7982124	5.6719581	3.64E-07	7.35E-06	KREMEN1
0183762	6				
ENSG0000	-0.687046	6.2880567	3.65E-07	7.36E-06	CERS6
0172292					
ENSG0000	0.8734216	5.9041824	3.67E-07	7.38E-06	UBQLN1
0135018	2				
ENSG0000	4.3824049	3.3168864	3.69E-07	7.39E-06	TLR3
0164342	6	7			
ENSG0000	4.7947197	0.5352306	3.69E-07	7.39E-06	DNER
0187957	2	1			
ENSG0000	-	5.5852939	3.70E-07	7.40E-06	SRSF8
0263465	0.9763308	8			
ENSG0000	2.6511500	8.8909538	3.74E-07	7.45E-06	SLC16A3
0141526	8	4			
ENSG0000	9.2103408	-	3.76E-07	7.48E-06	ASCL2
0183734	5	1.0582891			
ENSG0000	1.0490612	6.8852601	3.78E-07	7.51E-06	VPS13C
0129003	9	7			
ENSG0000	3.4340703	3.6697844	3.83E-07	7.57E-06	KIAA1755
0149633	7	7			
ENSG0000	5.9700284	0.5180328	3.83E-07	7.57E-06	CD274
0120217	4	3			
ENSG0000	-	5.8635104	4.02E-07	7.92E-06	PXK
0168297	1.6206051				
ENSG0000	1.8617046	5.4980016	4.04E-07	7.96E-06	IL4R
0077238	2	1			

ENSG0000	-	5.4299516	4.07E-07	8.00E-06	PPA2
0138777	0.7662769	7			
ENSG0000	1.0644244	5.9648606	4.09E-07	8.02E-06	PRKD2
0105287		9			
ENSG0000	-	8.4022758	4.12E-07	8.06E-06	EPS8
0151491	1.1158648	2			
ENSG0000	2.5535758	2.8129866	4.26E-07	8.31E-06	IGFLR1
0126246		3			
ENSG0000	2.392412	4.1145346	4.30E-07	8.38E-06	AKR1B1
0085662		3			
ENSG0000	0.7249940	5.9572455	4.31E-07	8.39E-06	BRWD1
0185658	4	2			
ENSG0000	-	5.3588332	4.33E-07	8.41E-06	IFT46
0118096	0.6046215	2			
ENSG0000	1.4099509	4.9250693	4.40E-07	8.52E-06	STBD1
0118804		5			
ENSG0000	1.7099932	4.8698792	4.45E-07	8.58E-06	TMEM106A
0184988	3	3			
ENSG0000	0.4601362	8.7227127	4.45E-07	8.58E-06	PRRC2C
0117523	5	9			
ENSG0000	2.5300023	3.4571638	4.46E-07	8.59E-06	UPP1
0183696	3				
ENSG0000	0.7405321	5.9565336	4.58E-07	8.80E-06	RNF146
0118518	2	2			
ENSG0000	-	6.0560991	4.60E-07	8.82E-06	EVI5L
0142459	0.7653726	3			
ENSG0000	0.8972700	12.271957	4.64E-07	8.88E-06	ENO1
0074800	2	8			
ENSG0000	-	5.5530199	4.77E-07	9.11E-06	FHL1
0022267	3.1641841	2			
ENSG0000	-	3.2356154	4.81E-07	9.14E-06	FAM72B
0188610	2.4402279				
ENSG0000	7.4724687	2.1088253	4.80E-07	9.14E-06	GRIP2
0144596	2	3			
ENSG0000	4.5363735	2.1146916	4.84E-07	9.19E-06	MARCHF3
0173926	7	3			
ENSG0000	1.0472994	6.5166019	4.92E-07	9.31E-06	PCGF5
0180628	2	6			
ENSG0000	1.1756709	7.5752901	4.93E-07	9.32E-06	LSS
0160285	6	2			
ENSG0000	0.7260712	6.7963993	5.11E-07	9.64E-06	MAX
0125952	2	1			
ENSG0000	-	5.3582708	5.17E-07	9.74E-06	SMAD9
0120693	1.8783884	9			

ENSG0000	0.9791747	6.6145698	5.24E-07	9.85E-06	FBXO7
0100225	1	5			
ENSG0000	-0.831894	5.1275249	5.25E-07	9.85E-06	SWI5
0175854		3			
ENSG0000	1.3389783	4.538042	5.42E-07	1.02E-05	RAB5IF
0101084	1				
ENSG0000	1.9133469	2.3838652	5.63E-07	1.05E-05	CPEB3
0107864	2	8			
ENSG0000	-	4.1575325	5.66E-07	1.06E-05	PARPBP
0185480	1.7222845	9			
ENSG0000	4.0249936	0.4265826	5.75E-07	1.07E-05	GVINP1
0254838	6	2			
ENSG0000	7.5283431	0.1275548	5.77E-07	1.07E-05	ITK
0113263	1	4			
ENSG0000	-	11.122450	5.91E-07	1.10E-05	RPL4
0174444	0.7885279	9			
ENSG0000	0.5008871	7.0057696	6.45E-07	1.19E-05	OTUB1
0167770	7	4			
ENSG0000	1.5764846	3.9424564	6.51E-07	1.20E-05	NT5C3A
0122643	4	6			
ENSG0000	-	4.4580633	6.56E-07	1.21E-05	RAD51C
0108384	1.0132195	3			
ENSG0000	-1.077634	6.0850532	6.88E-07	1.27E-05	CXXC5
0171604		9			
ENSG0000	-	3.0498640	7.16E-07	1.32E-05	ADAMTS15
0166106	3.5136731	5			
ENSG0000	-	4.6543638	7.26E-07	1.33E-05	NBPF20
0162825	1.2152603	3			
ENSG0000	4.0803562	5.4066074	7.28E-07	1.33E-05	LGALS3BP
0108679	5	5			
ENSG0000	-	6.2975912	7.84E-07	1.43E-05	POLR2J
0005075	0.6256562	5			
ENSG0000	-0.608239	6.9384940	8.00E-07	1.46E-05	CARM1
0142453		8			
ENSG0000	-	6.9200100	8.07E-07	1.47E-05	DYNC2I2
0119333	1.1336034	7			
ENSG0000	0.9645016	6.8064922	8.07E-07	1.47E-05	TCIRG1
0110719	1	3			
ENSG0000	-	5.0974087	8.15E-07	1.47E-05	UBE2E3
0170035	2.3428555	6			
ENSG0000	2.1007234	4.2646782	8.14E-07	1.47E-05	LIMK2
0182541	3	4			
ENSG0000	-	6.7825749	8.53E-07	1.54E-05	TOMM6
0214736	0.7150847	5			

ENSG0000	-	5.5159554	8.66E-07	1.56E-05	TBC1D4
0136111	0.9139752				
ENSG0000	0.5563686	8.4141643	9.11E-07	1.64E-05	CNBP
0169714	3	8			
ENSG0000	0.9461173	7.6970583	9.22E-07	1.65E-05	MVP
0013364	9				
ENSG0000	1.5442247	5.7733867	9.30E-07	1.67E-05	RAB10
0084733		8			
ENSG0000	1.1531089	5.0026205	9.34E-07	1.67E-05	TCP11L1
0176148	9	2			
ENSG0000	-	4.2203448	9.40E-07	1.68E-05	TFDP1
0198176	1.3437525	5			
ENSG0000	0.9963126	5.6882359	9.86E-07	1.76E-05	ARID4B
0054267	9	4			
ENSG0000	0.6592873	7.8076772	9.88E-07	1.76E-05	LZTS2
0107816	1	9			
ENSG0000	1.1452886	4.3690243	9.91E-07	1.76E-05	ZNF224
0267680	4	1			
ENSG0000	2.4665902	5.7174687	9.99E-07	1.77E-05	LMCD1
0071282	3	6			
ENSG0000	1.4401306	5.7244537	1.01E-06	1.78E-05	NFATC1
0131196	1				
ENSG0000	-	9.4735606	1.01E-06	1.78E-05	RPL7
0147604	0.8933286	1			
ENSG0000	1.2682025	5.4339564	1.02E-06	1.81E-05	SLC41A2
0136052	7	9			
ENSG0000	-	6.5273140	1.03E-06	1.81E-05	FOXM1
0111206	2.4604907	2			
ENSG0000	0.9674804	7.2533795	1.04E-06	1.82E-05	BBX
0114439	5	6			
ENSG0000	1.5897568	5.5253224	1.07E-06	1.87E-05	BNIP3L
0104765	5	2			
ENSG0000	0.7197378	8.0612222	1.08E-06	1.89E-05	ILK
0166333	9	5			
ENSG0000	0.7649542	4.4657387	1.09E-06	1.90E-05	TBC1D22B
0065491	4	3			
ENSG0000	2.5000228	3.2086781	1.11E-06	1.94E-05	BTG3
0154640	2				
ENSG0000	2.6300703	2.7056740	1.11E-06	1.94E-05	SEMA4D
0187764	9	3			
ENSG0000	-	6.1957525	1.12E-06	1.94E-05	PLCE1
0138193	2.4595652				
ENSG0000	-	6.2994388	1.12E-06	1.94E-05	HMGB1P6
0259781	0.8842963	4			

ENSG0000	1.8866882	2.3413983	1.13E-06	1.96E-05	RASSF5
0266094	5	2			
ENSG0000	-	4.7472005	1.17E-06	2.03E-05	LAGE3
0196976	0.9422068	6			
ENSG0000	0.6568636	6.6761636	1.19E-06	2.05E-05	TINF2
0092330	3	6			
ENSG0000	3.3122254	3.0433733	1.21E-06	2.09E-05	AGRN
0188157	1	4			
ENSG0000	1.2035542	6.2905113	1.22E-06	2.09E-05	PTPRJ
0149177		5			
ENSG0000	0.8476021	6.7198755	1.22E-06	2.09E-05	GRINA
0178719	7	1			
ENSG0000	-	10.645360	1.23E-06	2.11E-05	LMNA
0160789	1.1669461	5			
ENSG0000	1.6823038	5.0745431	1.28E-06	2.19E-05	P2RX4
0135124	3	2			
ENSG0000	1.5701713	5.4202031	1.29E-06	2.20E-05	FAM162A
0114023	8	5			
ENSG0000	-	4.7610969	1.32E-06	2.24E-05	MXD3
0213347	3.2756451	3			
ENSG0000	0.7080529	6.7408130	1.33E-06	2.27E-05	NCOA3
0124151	1	2			
ENSG0000	1.0798925	5.7657989	1.36E-06	2.30E-05	WDR45
0196998		5			
ENSG0000	-	5.4314437	1.39E-06	2.34E-05	FBXO22
0167196	0.6673636	3			
ENSG0000	0.9252059	5.3186643	1.39E-06	2.34E-05	TSFM
0123297	2	3			
ENSG0000	0.9343696	10.440026	1.38E-06	2.34E-05	PDIA3
0167004	9	3			
ENSG0000	0.828581	4.6833918	1.40E-06	2.37E-05	WHAMM
0156232		6			
ENSG0000	1.0210426	8.5825044	1.41E-06	2.37E-05	VEGFA
0112715	8	7			
ENSG0000	2.5520941	4.3396370	1.43E-06	2.39E-05	ANGPT1
0154188	3	7			
ENSG0000	-	5.8369326	1.45E-06	2.43E-05	GTF2A2
0140307	0.7123169	4			
ENSG0000	0.6663291	5.6498244	1.48E-06	2.48E-05	MED17
0042429		8			
ENSG0000	-3.001504	4.8250387	1.52E-06	2.53E-05	SPC24
0161888		1			
ENSG0000	1.4476474	4.6362439	1.52E-06	2.53E-05	LINC01145
0272419	1	9			

ENSG0000	5.4432178	-	1.52E-06	2.53E-05	TNFAIP6
0123610	2	0.9628665			
ENSG0000	-1.174575	3.7261931	1.53E-06	2.54E-05	LSM7
0130332		4			
ENSG0000	1.0413797	5.6215086	1.53E-06	2.54E-05	PARD3
0148498	6	5			
ENSG0000	-	5.1258431	1.53E-06	2.54E-05	FANCD2
0144554	2.4496538	5			
ENSG0000	-	6.0024922	1.54E-06	2.55E-05	TIMELESS
0111602	1.3733764	1			
ENSG0000	2.6301783	2.6678831	1.57E-06	2.59E-05	TRIM25
0121060	5	7			
ENSG0000	0.7332145	5.9751199	1.58E-06	2.60E-05	PRDM2
0116731	1	7			
ENSG0000	-0.842032	4.5252013	1.60E-06	2.63E-05	TRMT2B
0188917		5			
ENSG0000	1.1249421	5.2578150	1.63E-06	2.68E-05	RNF217
0146373	7	9			
ENSG0000	1.1591265	5.3440109	1.64E-06	2.68E-05	EOGT
0163378	1	9			
ENSG0000	0.6648801	5.5961320	1.67E-06	2.72E-05	UBE2B
0119048	7	8			
ENSG0000	-	10.274905	1.68E-06	2.74E-05	FLNC
0128591	2.0941785	7			
ENSG0000	0.4402867	7.2763921	1.69E-06	2.75E-05	WIPI2
0157954	5	1			
ENSG0000	0.5154682	6.9136852	1.69E-06	2.75E-05	CUL2
0108094	1	3			
ENSG0000	-	7.5811283	1.71E-06	2.77E-05	H2AX
0188486	1.7869034	4			
ENSG0000	1.3797354	4.8282517	1.71E-06	2.77E-05	TMEM205
0105518	1				
ENSG0000	-	4.9939901	1.71E-06	2.77E-05	TUB
0166402	1.7748668	4			
ENSG0000	7.4910512	2.1364756	1.73E-06	2.79E-05	IFIH1
0115267	8				
ENSG0000	-	7.4999579	1.73E-06	2.79E-05	ANKRD28
0206560	1.2752935	4			
ENSG0000	0.6418645	6.6989029	1.74E-06	2.80E-05	CCNDBP1
0166946	5	2			
ENSG0000	-	5.3170185	1.77E-06	2.84E-05	PARP2
0129484	1.2593256	4			
ENSG0000	-	5.4241687	1.79E-06	2.87E-05	CDCA3
0111665	4.2391857	5			

ENSG0000	-	5.1773115	1.83E-06	2.93E-05	RPGRIP1L
0103494	1.1814969	4			
ENSG0000	0.4965493	6.6871419	1.84E-06	2.94E-05	TXNDC11
0153066	9	9			
ENSG0000	0.9043760	6.3403018	1.84E-06	2.94E-05	KDSR
0119537	1	6			
ENSG0000	1.1300531	6.0134399	1.86E-06	2.96E-05	BCOR
0183337	4	9			
ENSG0000	-	4.4510386	1.87E-06	2.98E-05	TMEM218
0150433	0.7373296	5			
ENSG0000	1.4277599	7.3453861	1.87E-06	2.98E-05	ARNTL2
0029153		8			
ENSG0000	1.0338945	5.4876195	1.88E-06	2.99E-05	PRKCD
0163932	4	4			
ENSG0000	1.4006299	4.9488951	1.92E-06	3.04E-05	LACTB
0103642	2	6			
ENSG0000	-	7.3413008	1.95E-06	3.08E-05	RABGEF1
0154710	0.5179691	7			
ENSG0000	4.6827414	-	2.00E-06	3.16E-05	RMI2
0175643	9	0.2098816			
ENSG0000	1.0959631	5.5048153	2.05E-06	3.23E-05	CYTH1
0108669	7	2			
ENSG0000	-	5.5872223	2.12E-06	3.33E-05	MAGI1
0151276	1.4498232	2			
ENSG0000	-0.714511	7.0016350	2.13E-06	3.35E-05	MAP3K3
0198909		1			
ENSG0000	0.7201683	6.8257766	2.15E-06	3.37E-05	ARHGEF11
0132694	8	5			
ENSG0000	-	5.4486104	2.17E-06	3.38E-05	KIAA0586
0100578	1.4110359	5			
ENSG0000	-0.939849	5.5691821	2.16E-06	3.38E-05	ZDHHC7
0153786					
ENSG0000	-	5.0304528	2.17E-06	3.39E-05	PCLAF
0166803	2.8044733	9			
ENSG0000	-	2.3640948	2.20E-06	3.43E-05	ADTRP
0111863	3.1457332	3			
ENSG0000	-	6.8930764	2.20E-06	3.43E-05	HBS1L
0112339	0.5733596	8			
ENSG0000	1.2771076	4.3344012	2.22E-06	3.45E-05	CD68
0129226	4	3			
ENSG0000	0.7709911	7.9019920	2.25E-06	3.49E-05	LRP10
0197324	1	6			
ENSG0000	1.1691068	3.7725608	2.26E-06	3.50E-05	ELF1
0120690	8				

ENSG0000	0.8271600	5.1291499	2.27E-06	3.50E-05	NFKBIB
0104825	7				
ENSG0000	1.3117116	3.8799466	2.35E-06	3.63E-05	TVP23C-
0259024	7	9			CDRT4
ENSG0000	1.7005372	2.6524868	2.42E-06	3.73E-05	TAF8
0137413	3	7			
ENSG0000	1.1997683	3.4577066	2.44E-06	3.76E-05	OSMR
0145623	5	2			
ENSG0000	5.3795261	2.9011275	2.49E-06	3.82E-05	DRAM1
0136048	8	3			
ENSG0000	-	4.1393080	2.58E-06	3.94E-05	CENPW
0203760	2.4195239	8			
ENSG0000	0.7911508	7.6024450	2.60E-06	3.97E-05	KLHL21
0162413	4	8			
ENSG0000	-	5.0062804	2.61E-06	3.98E-05	MKKS
0125863	0.7872765	6			
ENSG0000	8.7134893	1.6114132	2.61E-06	3.98E-05	MT1G
0125144	8	5			
ENSG0000	2.7584409	3.8760263	2.66E-06	4.04E-05	MICB
0204516	6	8			
ENSG0000	2.2589018	2.1284980	2.71E-06	4.10E-05	ZNF462
0148143	2	7			
ENSG0000	-	9.6496703	2.71E-06	4.10E-05	MAP4K4
0071054	0.9923544	9			
ENSG0000	7.4980957	-	2.75E-06	4.15E-05	PTGES3P1
0234518		0.0074776			
ENSG0000	1.0078458	7.1786128	2.79E-06	4.20E-05	UXS1
0115652	8	5			
ENSG0000	-	4.3684176	2.81E-06	4.23E-05	CENPL
0120334	1.8896569	2			
ENSG0000	-	6.1782143	2.82E-06	4.24E-05	MMGT1
0169446	0.4518332	2			
ENSG0000	-	3.8432738	2.90E-06	4.34E-05	EME1
0154920	2.5935234	6			
ENSG0000	-	4.4216790	2.89E-06	4.34E-05	NABP2
0139579	1.2870062	4			
ENSG0000	3.6606970	4.2719365	2.98E-06	4.45E-05	MEIS1
0143995	8	7			
ENSG0000	0.9733486	5.5814900	2.99E-06	4.47E-05	PIGG
0174227	7	1			
ENSG0000	0.6476266	6.3109992	3.00E-06	4.48E-05	ELK1
0126767	9	8			
ENSG0000	-	3.4493756	3.01E-06	4.49E-05	RAB40B
0141542	1.7600518	8			

ENSG0000	2.8753521	3.7038254	3.03E-06	4.51E-05	INSIG1
0186480	9	9			
ENSG0000	-1.561032	4.0571193	3.04E-06	4.51E-05	PPDPF
0125534		6			
ENSG0000	2.7410845	2.8104276	3.06E-06	4.54E-05	SLC37A1
0160190	1				
ENSG0000	-	5.7288031	3.07E-06	4.54E-05	CENPN
0166451	1.9782931	5			
ENSG0000	0.9333568	4.9238573	3.09E-06	4.56E-05	C18orf25
0152242	1	6			
ENSG0000	5.3915944	4.5662300	3.11E-06	4.59E-05	IL6
0136244	6	9			
ENSG0000	2.6020178	1.9658779	3.25E-06	4.79E-05	TAPBPL
0139192	9	7			
ENSG0000	1.7145720	4.7004265	3.27E-06	4.81E-05	AIFM2
0042286	6	3			
ENSG0000	1.214007	5.0926322	3.28E-06	4.81E-05	IFNGR2
0159128		3			
ENSG0000	0.8555672	5.7076376	3.27E-06	4.81E-05	GANC
0214013	2	3			
ENSG0000	1.6355273	3.3571664	3.30E-06	4.83E-05	PYCARD
0103490	8	8			
ENSG0000	4.6376951	4.4386292	3.39E-06	4.95E-05	VCAM1
0162692	7	7			
ENSG0000	-	3.3540376	3.44E-06	5.03E-05	MTSS2
0132613	1.4139168	6			
ENSG0000	-	4.9432557	3.56E-06	5.19E-05	CMTM4
0183723	1.1019772	6			
ENSG0000	-	6.5447450	3.57E-06	5.20E-05	RASA4
0105808	1.7344758	1			
ENSG0000	1.4030455	3.6311634	3.65E-06	5.31E-05	PARP11
0111224	5	8			
ENSG0000	-	8.9079123	3.66E-06	5.32E-05	IPO5
0065150	0.8397069	4			
ENSG0000	2.4028372	3.6257194	3.69E-06	5.32E-05	RAB42
0188060	5				
ENSG0000	-	4.8333378	3.69E-06	5.32E-05	DBF4
0006634	2.2075929	7			
ENSG0000	1.2144131	4.0479485	3.69E-06	5.32E-05	PPAN
0130810	5	7			
ENSG0000	2.1055856	7.6688540	3.68E-06	5.32E-05	RCAN1
0159200	5	6			
ENSG0000	1.0313837	9.8780545	3.75E-06	5.40E-05	LIMA1
0050405	4	7			

ENSG0000	-1.014546	6.6544075	3.79E-06	5.45E-05	CAMTA2
0108509		5			
ENSG0000	-	2.6569731	3.86E-06	5.54E-05	HIRIP3
0149929	2.4524324	7			
ENSG0000	8.9794808	1.4843544	3.90E-06	5.59E-05	HERC6
0138642	9	2			
ENSG0000	1.0629422	5.9566337	3.91E-06	5.60E-05	KDM3A
0115548	9	9			
ENSG0000	11.223388	2.0023625	3.92E-06	5.60E-05	GBP1P1
0225492	8	6			
ENSG0000	-	5.2853990	3.97E-06	5.65E-05	DSN1
0149636	1.3017058	6			
ENSG0000	0.9694592	5.5642597	3.97E-06	5.65E-05	TMEM35B
0243749	9	9			
ENSG0000	1.4246420	6.1892223	3.98E-06	5.65E-05	RAI14
0039560	3	8			
ENSG0000	-	6.8281434	3.97E-06	5.65E-05	SH3KBP1
0147010	0.7119616	4			
ENSG0000	-	3.1232999	4.05E-06	5.75E-05	RPL13P5
0240370	1.2845618	3			
ENSG0000	1.7980199	4.3149063	4.11E-06	5.83E-05	CADPS2
0081803	4				
ENSG0000	-	7.5868649	4.15E-06	5.87E-05	TMA7
0232112	0.5962982	4			
ENSG0000	2.0822111	3.8537317	4.20E-06	5.94E-05	MTMR9LP
0220785	5	9			
ENSG0000	-	4.0946864	4.23E-06	5.97E-05	MMAB
0139428	1.0013489	3			
ENSG0000	1.1122142	9.4645739	4.24E-06	5.98E-05	FGFR1
0077782	6	7			
ENSG0000	0.7643879	5.2075803	4.30E-06	6.05E-05	ZNF160
0170949	9	4			
ENSG0000	0.8317675	6.3990986	4.37E-06	6.13E-05	FBRS
0156860	1	2			
ENSG0000	-	3.6425152	4.37E-06	6.13E-05	DCXR
0169738	1.4081347	3			
ENSG0000	1.9571079	4.9197822	4.45E-06	6.24E-05	ACVRL1
0139567	1	4			
ENSG0000	8.9386360	3.026148	4.52E-06	6.32E-05	GBP1
0117228	9				
ENSG0000	0.9748278	5.1494692	4.58E-06	6.39E-05	BTN2A1
0112763	8	9			
ENSG0000	-	8.0488672	4.61E-06	6.42E-05	RBMX
0147274	0.8218164	1			

ENSG0000	1.0384956	5.9726115	4.64E-06	6.45E-05	PHF21A
0135365	2	5			
ENSG0000	-	4.5133017	4.86E-06	6.74E-05	CCDC18
0122483	2.2184614	8			
ENSG0000	-	6.0686803	4.86E-06	6.74E-05	HLCS
0159267	0.6673265	5			
ENSG0000	-	6.5757090	4.86E-06	6.74E-05	DDX46
0145833	0.9342764	7			
ENSG0000	0.765349	6.7865531	4.94E-06	6.83E-05	TAB2
0055208		7			
ENSG0000	0.6766622	8.3225733	4.95E-06	6.84E-05	BMP1
0168487	6	5			
ENSG0000	-	5.0155795	5.01E-06	6.92E-05	SNRNP25
0161981	1.1219411	4			
ENSG0000	0.4186221	8.4645219	5.08E-06	6.99E-05	SZRD1
0055070	2	8			
ENSG0000	-1.819118	6.0116223	5.19E-06	7.14E-05	JADE1
0077684		2			
ENSG0000	-	5.4062715	5.24E-06	7.20E-05	RCCD1
0166965	0.9236076	4			
ENSG0000	-	7.6115064	5.34E-06	7.33E-05	LAMA2
0196569	1.2951717	2			
ENSG0000	1.7881084	8.4777103	5.43E-06	7.44E-05	ATP13A3
0133657	8	2			
ENSG0000	-2.517982	4.7530793	5.52E-06	7.55E-05	MAD2L1
0164109		8			
ENSG0000	-	6.3915513	5.55E-06	7.58E-05	ANAPC7
0196510	0.6638852	6			
ENSG0000	-	5.3292061	5.57E-06	7.60E-05	MCM8
0125885	2.0818874	4			
ENSG0000	-	4.4983896	5.63E-06	7.66E-05	SARS1
0031698	1.1587655	3			
ENSG0000	-	6.8263636	5.63E-06	7.66E-05	SGMS2
0164023	0.9669854	8			
ENSG0000	4.7539064	4.1646960	5.92E-06	8.04E-05	ANGPTL1
0116194	9	9			
ENSG0000	2.8839301	4.6183874	5.94E-06	8.06E-05	AMPD3
0133805	6	8			
ENSG0000	-1.461307	3.4035872	5.99E-06	8.10E-05	CDH24
0139880		5			
ENSG0000	-	10.168452	5.99E-06	8.10E-05	RPS3
0149273	0.7068452	7			
ENSG0000	-	5.7755840	6.04E-06	8.16E-05	SUGP2
0064607	0.7860763	5			

ENSG0000	1.3449200	6.4607239	6.05E-06	8.17E-05	TMEM45A
0181458	3	3			
ENSG0000	0.5836824	6.0399234	6.08E-06	8.19E-05	TM2D2
0169490	9	7			
ENSG0000	0.7932395	6.7272003	6.09E-06	8.19E-05	SMURF1
0198742	1				
ENSG0000	-	7.8930068	6.12E-06	8.23E-05	NSD2
0109685	1.3981247	1			
ENSG0000	1.2210256	4.0637401	6.16E-06	8.26E-05	TMEM170A
0166822		1			
ENSG0000	0.6530080	7.5891025	6.26E-06	8.39E-05	ZNF532
0074657	1				
ENSG0000	0.6239770	8.6568260	6.42E-06	8.59E-05	TRIM8
0171206	9	7			
ENSG0000	5.7301334	-	6.43E-06	8.59E-05	DDX60
0137628	8	0.0539005			
ENSG0000	-	5.2629977	6.45E-06	8.61E-05	NUDT1
0106268	1.1867788	8			
ENSG0000	3.8476279	2.4649778	6.50E-06	8.65E-05	CXCL2
0081041		2			
ENSG0000	1.4560658	5.9119991	6.50E-06	8.65E-05	MTHFR
0177000	3	9			
ENSG0000	1.9837296	5.5407098	6.55E-06	8.70E-05	ABCC3
0108846	2	3			
ENSG0000	-1.152583	3.6504560	6.59E-06	8.74E-05	ZNF692
0171163		3			
ENSG0000	3.0694713	5.1294727	6.63E-06	8.78E-05	GK
0198814	3	6			
ENSG0000	2.2925914	5.2632320	6.68E-06	8.81E-05	IGSF8
0162729	6	4			
ENSG0000	0.7568897	5.1567093	6.67E-06	8.81E-05	VPS54
0143952	9				
ENSG0000	-	6.6657638	6.68E-06	8.81E-05	QSER1
0060749	0.8517368	8			
ENSG0000	2.3846443	2.6190061	6.84E-06	9.01E-05	PHC3
0173889	8	1			
ENSG0000	-	4.0134112	6.86E-06	9.02E-05	ARHGAP33
0004777	3.1359095	6			
ENSG0000	1.3439767	6.8508613	6.89E-06	9.04E-05	NCOA7
0111912	2	7			
ENSG0000	1.3260620	5.4782136	6.90E-06	9.05E-05	LGMN
0100600	6	7			
ENSG0000	-	5.4388625	7.00E-06	9.15E-05	ANAPC15
0110200	0.8468402	7			

ENSG0000	0.5842837	8.2995155	6.99E-06	9.15E-05	NT5E
0135318	2	7			
ENSG0000	4.7123104	1.3428674	7.01E-06	9.15E-05	SPAG4
0061656	2				
ENSG0000	0.5845629	5.9152945	7.04E-06	9.18E-05	HERPUD2
0122557	8	9			
ENSG0000	0.6819555	12.928792	7.10E-06	9.25E-05	GAPDH
0111640	9	5			
ENSG0000	-	8.4803790	7.13E-06	9.27E-05	SETD7
0145391	0.5826523	6			
ENSG0000	1.7254461	4.8372523	7.28E-06	9.45E-05	BTN2A2
0124508	1	6			
ENSG0000	-	7.6882452	7.28E-06	9.45E-05	KITLG
0049130	1.4328435	2			
ENSG0000	-	5.3395219	7.29E-06	9.45E-05	FAAP100
0185504	1.2598098				
ENSG0000	-	7.5109686	7.30E-06	9.45E-05	SMPD4
0136699	0.6961317	8			
ENSG0000	-	3.3703894	7.40E-06	9.57E-05	BCKDHB
0083123	1.0397109	5			
ENSG0000	-	6.5768117	7.42E-06	9.57E-05	MRPL24
0143314	0.7057766	6			
ENSG0000	1.4622286	5.0206929	7.45E-06	9.60E-05	USP15
0135655	1	2			
ENSG0000	0.6070579	7.2397827	7.62E-06	9.81E-05	RERE
0142599	2				
ENSG0000	2.3819989	3.1349742	7.81E-06	1.00E-04	PSD4
0125637	6	9			
ENSG0000	-	11.852507	7.80E-06	1.00E-04	TIMP3
0100234	1.8748733	6			
ENSG0000	-	4.1560180	7.84E-06	1.00E-04	KCTD7
0243335	1.3522662	3			
ENSG0000	-	5.4229594	7.91E-06	1.01E-04	INCENP
0149503	1.9751279				
ENSG0000	-	4.2572345	7.94E-06	1.01E-04	AGFG2
0106351	1.0235047	9			
ENSG0000	-	6.1677336	8.05E-06	1.03E-04	ZFTA
0188070	1.0756826	2			
ENSG0000	-	4.2773148	8.16E-06	1.04E-04	METTL21A
0144401	1.0442215	6			
ENSG0000	-	2.9261033	8.30E-06	1.05E-04	SMIM4
0168273	1.5356382	2			
ENSG0000	2.8919129	0.4544634	8.30E-06	1.05E-04	PSMB8
0204264	1	2			

ENSG0000	-	6.4203080	8.33E-06	1.06E-04	ABHD14B
0114779	0.4439414	8			
ENSG0000	1.0263793	4.8700154	8.38E-06	1.06E-04	RBMXL1
0213516	6	3			
ENSG0000	-	5.5786994	8.39E-06	1.06E-04	CCDC14
0175455	1.0510039	7			
ENSG0000	1.0145881	6.3558311	8.63E-06	1.09E-04	RASAL2
0075391	9	3			
ENSG0000	0.6810272	6.9897326	8.69E-06	1.09E-04	ATG101
0123395	7				
ENSG0000	2.6830536	2.0357035	8.70E-06	1.09E-04	IKBKE
0263528	5	7			
ENSG0000	-	5.0950580	8.72E-06	1.10E-04	DLX3
0064195	2.1557021	9			
ENSG0000	-	5.6481207	8.74E-06	1.10E-04	PHF19
0119403	1.3883858	6			
ENSG0000	0.3957762	7.1690847	8.75E-06	1.10E-04	OTUD5
0068308	6	2			
ENSG0000	1.2727978	4.2646326	9.13E-06	1.14E-04	SELPLG
0110876	4				
ENSG0000	-	9.2366625	9.32E-06	1.16E-04	DDR2
0162733	1.0554976				
ENSG0000	0.7018657	5.9521725	9.43E-06	1.18E-04	LARP7
0174720	2	3			
ENSG0000	0.7815143	9.0057132	9.74E-06	1.21E-04	GUK1
0143774	9	4			
ENSG0000	-	7.6259345	9.75E-06	1.21E-04	MYO5A
0197535	0.8641067	7			
ENSG0000	-	7.1850572	9.79E-06	1.22E-04	ASAP2
0151693	1.1969539	8			
ENSG0000	-	3.7612812	9.92E-06	1.23E-04	ADRB2
0169252	2.0762894				
ENSG0000	0.7012071	5.9506257	9.96E-06	1.24E-04	GPR137
0173264		4			
ENSG0000	-	5.1257367	1.00E-05	1.24E-04	PSPH
0146733	1.5553632	9			
ENSG0000	-	5.7922862	1.01E-05	1.25E-04	BANF1
0175334	0.7423391	2			
ENSG0000	-	7.3309452	1.01E-05	1.25E-04	METAP2
0111142	0.5155738	5			
ENSG0000	5.8842276	5.8250698	1.02E-05	1.26E-04	IL33
0137033		2			
ENSG0000	-	6.2855001	1.04E-05	1.28E-04	ACACA
0278540	0.9676692	2			

ENSG0000	2.0027538	3.7626191	1.06E-05	1.30E-04	WWC1
0113645	8	6			
ENSG0000	-	4.0186796	1.07E-05	1.32E-04	GAS2L3
0139354	3.9887255	4			
ENSG0000	1.0839153	7.4624338	1.08E-05	1.32E-04	TLE5
0104964	4	2			
ENSG0000	-	3.9256209	1.09E-05	1.34E-04	LIN9
0183814	1.2979372				
ENSG0000	-	7.0622825	1.10E-05	1.34E-04	MBNL2
0139793	0.8522795	7			
ENSG0000	3.8536837	3.0698606	1.10E-05	1.34E-04	NFKBIA
0100906	7	4			
ENSG0000	-	6.3062710	1.13E-05	1.38E-04	GTF3C2
0115207	0.5490353	5			
ENSG0000	-	3.2527326	1.13E-05	1.38E-04	GEMIN6
0152147	0.8792458				
ENSG0000	-	8.8734655	1.13E-05	1.38E-04	PHGDH
0092621	1.5255811				
ENSG0000	-	2.8293375	1.13E-05	1.38E-04	H2AZ1
0164032	1.8882194	2			
ENSG0000	-	5.0847863	1.15E-05	1.40E-04	RFC4
0163918	1.4206189	9			
ENSG0000	-	5.8321929	1.16E-05	1.41E-04	KNL1
0137812	3.2751849	8			
ENSG0000	0.6461834	7.0575676	1.17E-05	1.42E-04	USP33
0077254	7				
ENSG0000	-	4.5618925	1.18E-05	1.42E-04	HMGB3
0029993	1.5523755	2			
ENSG0000	1.2884133	4.9158443	1.18E-05	1.43E-04	NAB1
0138386	5	5			
ENSG0000	-	6.8755228	1.18E-05	1.43E-04	STMN1
0117632	2.0536426	5			
ENSG0000	1.0306502	6.6979151	1.18E-05	1.43E-04	GCC2
0135968	9				
ENSG0000	1.0701562	5.3324015	1.20E-05	1.44E-04	MLH3
0119684	7	8			
ENSG0000	3.6131163	3.1556809	1.21E-05	1.45E-04	INSIG2
0125629	3	6			
ENSG0000	0.6689866	5.4151170	1.21E-05	1.45E-04	TUSC1
0198680	4	8			
ENSG0000	-	6.1737261	1.21E-05	1.45E-04	NUP107
0111581	1.0644742	4			
ENSG0000	-	6.2871259	1.22E-05	1.46E-04	SSBP3
0157216	0.7218478	9			

ENSG0000	-	5.1043620	1.25E-05	1.50E-04	PSRC1
0134222	2.2577544	9			
ENSG0000	2.3950011	4.0361753	1.25E-05	1.50E-04	EIF2AK2
0055332	4	5			
ENSG0000	-	5.3248630	1.26E-05	1.51E-04	CIP2A
0163507	2.0910236	8			
ENSG0000	2.3327044	2.8130262	1.28E-05	1.52E-04	ZFP36L1
0185650	6	8			
ENSG0000	-	5.6948847	1.28E-05	1.52E-04	CKAP2
0136108	2.0861294	6			
ENSG0000	-	6.5905771	1.28E-05	1.53E-04	NSMF
0165802	0.7416858	3			
ENSG0000	0.5358372	7.5647749	1.31E-05	1.55E-04	NSFL1C
0088833	9	3			
ENSG0000	2.1692593	5.8069989	1.34E-05	1.59E-04	SLC2A1
0117394	9	1			
ENSG0000	-	6.5054862	1.34E-05	1.59E-04	RCC1
0180198	0.9573382	5			
ENSG0000	-	6.1861298	1.35E-05	1.59E-04	FKTN
0106692	0.7604732	1			
ENSG0000	-3.296124	4.0366335	1.38E-05	1.63E-04	TAF4A5
0219438		5			
ENSG0000	-	7.4314167	1.38E-05	1.63E-04	ZMYND11
0015171	0.5015565	8			
ENSG0000	-	4.8109899	1.41E-05	1.66E-04	HYLS1
0198331	1.8932986	3			
ENSG0000	-	3.7648246	1.42E-05	1.67E-04	FAM180A
0189320	2.1697786	4			
ENSG0000	-	8.7959469	1.42E-05	1.67E-04	ESYT1
0139641	0.6813189	3			
ENSG0000	0.6978527	10.055607	1.43E-05	1.68E-04	NFE2L1
0082641		3			
ENSG0000	3.0470548	1.8316194	1.43E-05	1.68E-04	ATF3
0162772	3				
ENSG0000	0.8946167	5.6987679	1.43E-05	1.68E-04	ZBTB17
0116809	4	3			
ENSG0000	-	6.2820046	1.43E-05	1.68E-04	SPEG
0072195	0.8260904	5			
ENSG0000	-	3.9007715	1.44E-05	1.69E-04	GPSM2
0121957	2.9102353	3			
ENSG0000	-	3.5472451	1.48E-05	1.72E-04	CDKN3
0100526	3.1905686	9			
ENSG0000	0.5140141	9.2312541	1.48E-05	1.73E-04	CD164
0135535	6	2			

ENSG0000	-	3.8820551	1.49E-05	1.73E-04	TMEM243
0135185	1.3182721	1			
ENSG0000	-2.915336	4.9665693	1.49E-05	1.73E-04	TACC3
0013810		7			
ENSG0000	-	5.4102577	1.51E-05	1.75E-04	CRAT
0095321	0.5473485	1			
ENSG0000	0.7268452	7.6606232	1.51E-05	1.75E-04	NUMB
0133961	2	5			
ENSG0000	-	2.6055202	1.53E-05	1.77E-04	ZNF575
0176472	1.2143776	4			
ENSG0000	2.0914772	6.8170254	1.54E-05	1.78E-04	SCARB2
0138760	9	1			
ENSG0000	0.5625781	7.0568248	1.56E-05	1.80E-04	SUB1
0113387		2			
ENSG0000	-	5.9744468	1.57E-05	1.81E-04	IPO11
0086200	0.5059145	3			
ENSG0000	-1.140349	7.0268962	1.60E-05	1.84E-04	PDE1C
0154678					
ENSG0000	-	9.4435097	1.60E-05	1.84E-04	SERBP1
0142864	0.5442411	8			
ENSG0000	-	4.5435713	1.61E-05	1.85E-04	RNASEH2A
0104889	1.6701791				
ENSG0000	1.7591216	3.3534882	1.63E-05	1.87E-04	NECAP2
0157191	1	9			
ENSG0000	-	6.2459841	1.63E-05	1.87E-04	NPR3
0113389	2.9025301	1			
ENSG0000	-	6.7670865	1.63E-05	1.87E-04	C5orf63
0164241	2.1380848	2			
ENSG0000	2.5479872	2.0055175	1.66E-05	1.90E-04	PLEKHN1
0187583		5			
ENSG0000	-	9.7792744	1.68E-05	1.91E-04	NFIX
0008441	0.7983885	5			
ENSG0000	1.3439881	4.2496512	1.69E-05	1.93E-04	N4BP1
0102921	9	7			
ENSG0000	4.4007382	3.4601128	1.71E-05	1.94E-04	SLC39A8
0138821	9	5			
ENSG0000	-	3.0284245	1.72E-05	1.96E-04	CORO6
0167549	1.6134958	7			
ENSG0000	0.6862817	5.9852894	1.72E-05	1.96E-04	RNF111
0157450	7	9			
ENSG0000	0.8201640	5.7153221	1.75E-05	1.99E-04	TAB3
0157625	7	6			
ENSG0000	1.2469829	5.9050069	1.76E-05	1.99E-04	HTATIP2
0109854	6	1			

ENSG0000	-	4.8844140	1.76E-05	1.99E-04	RABEPK
0136933	0.7082879	8			
ENSG0000	-	2.1746005	1.78E-05	2.02E-04	RAB7B
0276600	2.8397046	9			
ENSG0000	-	5.8673372	1.79E-05	2.02E-04	MYBL1
0185697	2.2275043	6			
ENSG0000	-	6.8774394	1.80E-05	2.03E-04	BCL7C
0099385	0.6598168				
ENSG0000	-	4.0899722	1.81E-05	2.04E-04	CCDC74A
0163040	1.2735805	1			
ENSG0000	-	7.5252926	1.84E-05	2.07E-04	HMGB2
0164104	1.6954196	6			
ENSG0000	-	5.4279774	1.84E-05	2.07E-04	ERGIC2
0087502	0.5294853	9			
ENSG0000	6.3947782	-0.451455	1.85E-05	2.07E-04	MT1F
0198417	2				
ENSG0000	1.2513542	5.5486593	1.86E-05	2.09E-04	CREBRF
0164463	1	5			
ENSG0000	0.6011785	5.5696776	1.90E-05	2.12E-04	SIKE1
0052723	2	2			
ENSG0000	0.5962851	5.8264703	1.90E-05	2.13E-04	POLR2H
0163882	7	4			
ENSG0000	0.5765742	6.6508230	1.91E-05	2.14E-04	HIRA
0100084	9	9			
ENSG0000	0.4885784	5.8129650	1.93E-05	2.15E-04	UNC50
0115446		6			
ENSG0000	0.8969620	7.4414529	1.95E-05	2.17E-04	SPTLC2
0100596	2	2			
ENSG0000	3.3896727	6.7155453	1.95E-05	2.17E-04	ADM
0148926		8			
ENSG0000	-	6.4461694	1.96E-05	2.18E-04	NBPF1
0219481	0.9653405	6			
ENSG0000	2.7209874	4.0525072	1.98E-05	2.20E-04	H2BC21
0184678	6	6			
ENSG0000	-	5.7116864	1.99E-05	2.20E-04	MAT2A
0168906	1.3414983	1			
ENSG0000	-	9.5080074	1.99E-05	2.20E-04	CSPG4
0173546	1.0820749	1			
ENSG0000	-	4.8524868	2.02E-05	2.23E-04	CTDSPL
0144677	1.2269394	5			
ENSG0000	1.0144568	6.0277228	2.02E-05	2.23E-04	MAP2K1
0169032	6	9			
ENSG0000	-	4.8355500	2.03E-05	2.24E-04	KIF18B
0186185	3.1689858	6			

ENSG0000	-	7.6291348	2.07E-05	2.28E-04	CKAP5
0175216	0.9888638	6			
ENSG0000	3.7925662	1.8226013	2.12E-05	2.34E-04	NFKB2
0077150	5	4			
ENSG0000	-0.989465	6.6436073	2.12E-05	2.34E-04	PLCD1
0187091		4			
ENSG0000	1.5843789	3.8536216	2.14E-05	2.35E-04	CLSTN3
0139182	2	9			
ENSG0000	-	1.5986260	2.16E-05	2.36E-04	ZFP69B
0187801	1.9844328	1			
ENSG0000	-	5.9931414	2.16E-05	2.36E-04	SCMH1
0010803	0.7847061	7			
ENSG0000	0.6710722	6.5483496	2.19E-05	2.39E-04	SNAPC3
0164975	7	4			
ENSG0000	0.8282281	6.6730444	2.18E-05	2.39E-04	SRGAP1
0196935	9	3			
ENSG0000	-0.782597	4.3418236	2.19E-05	2.40E-04	PGAP2
0148985		6			
ENSG0000	2.5990037	3.2415674	2.20E-05	2.40E-04	CHRD
0090539	7	3			
ENSG0000	0.5404985	6.9185854	2.21E-05	2.41E-04	USP40
0085982	4	4			
ENSG0000	-	7.0940516	2.23E-05	2.42E-04	ODC1
0115758	1.3674012	4			
ENSG0000	-	10.148939	2.24E-05	2.44E-04	RPL3
0100316	0.7394771	8			
ENSG0000	5.8435631	4.3276265	2.26E-05	2.45E-04	OAS1
0089127		7			
ENSG0000	-	3.0497155	2.27E-05	2.46E-04	CABYR
0154040	1.5754207	9			
ENSG0000	-	5.1416082	2.27E-05	2.46E-04	TRERF1
0124496	1.2005104	9			
ENSG0000	-	4.2392407	2.28E-05	2.47E-04	ADAL
0168803	0.7434121	8			
ENSG0000	-	5.8449408	2.29E-05	2.47E-04	REPS1
0135597	0.4658883	3			
ENSG0000	-	4.3966172	2.29E-05	2.47E-04	NCAPG2
0146918	3.2149847	2			
ENSG0000	1.5338183	7.0191732	2.31E-05	2.49E-04	WASHC2A
0099290		6			
ENSG0000	-	3.1649254	2.35E-05	2.53E-04	RDH5
0135437	1.8544348	9			
ENSG0000	-	4.7920742	2.36E-05	2.54E-04	RAD51AP1
0111247	1.8755016	5			

ENSG0000	0.5069548	5.7800893	2.40E-05	2.58E-04	VPS37A
0155975	4	3			
ENSG0000	1.9609605	4.6043753	2.43E-05	2.61E-04	PPP1R13L
0104881	5	6			
ENSG0000	1.0727531	5.9608909	2.44E-05	2.62E-04	ABHD5
0011198	1				
ENSG0000	-1.535877	5.7115381	2.48E-05	2.66E-04	SDC2
0169439		6			
ENSG0000	0.8235799	4.7062426	2.49E-05	2.67E-04	NOL3
0140939		1			
ENSG0000	1.6441428	4.7564712	2.51E-05	2.68E-04	ATG2A
0110046		1			
ENSG0000	-	3.8721514	2.53E-05	2.70E-04	DLGAP5
0126787	3.1589089	3			
ENSG0000	-	6.8121820	2.55E-05	2.72E-04	PTGR1
0106853	0.4696182	7			
ENSG0000	1.7754244	2.5291303	2.57E-05	2.73E-04	PSMA3
0100567	9				
ENSG0000	0.9001820	6.1741203	2.58E-05	2.74E-04	ARHGEF10
0074964	1	7			L
ENSG0000	-	5.3835374	2.58E-05	2.75E-04	CMC2
0103121	0.9670298	2			
ENSG0000	0.8257527	4.0239792	2.59E-05	2.75E-04	TRIM13
0204977	5				
ENSG0000	0.8105072	5.7506439	2.64E-05	2.80E-04	DTX2
0091073	8	1			
ENSG0000	-	8.6634386	2.65E-05	2.80E-04	FGFRL1
0127418	1.0671041	7			
ENSG0000	-1.143509	6.894905	2.66E-05	2.82E-04	SACS
0151835					
ENSG0000	-0.861989	6.2524303	2.68E-05	2.84E-04	AHDC1
0126705		6			
ENSG0000	-	9.4448886	2.69E-05	2.84E-04	TNXB
0168477	1.9902331	4			
ENSG0000	-	2.6884911	2.70E-05	2.85E-04	ATP6V1E2
0250565	1.6737196	3			
ENSG0000	0.4918019	8.5375560	2.70E-05	2.85E-04	XBP1
0100219	5	1			
ENSG0000	0.6262013	4.7610297	2.73E-05	2.87E-04	THAP6
0174796	2	7			
ENSG0000	-	6.2178846	2.73E-05	2.87E-04	PLEKHG4
0196155	1.7287094	5			
ENSG0000	-	5.1168104	2.74E-05	2.87E-04	BCL2L12
0126453	1.4267262	3			

ENSG0000	-	4.3570713	2.85E-05	2.99E-04	SPSB2
0111671	1.1198452				
ENSG0000	-	6.8126981	2.86E-05	3.00E-04	RCN2
0117906	0.7736124	2			
ENSG0000	4.7830537	3.4498531	2.89E-05	3.02E-04	PTGES
0148344		7			
ENSG0000	-	6.4753187	2.93E-05	3.06E-04	AK1
0106992	1.5100088	8			
ENSG0000	1.0638379	10.016507	3.05E-05	3.18E-04	CTSL
0135047		3			
ENSG0000	-	1.2640775	3.10E-05	3.23E-04	NUDT6
0170917	3.0749824	2			
ENSG0000	-	3.1972194	3.13E-05	3.26E-04	KRT10-AS1
0167920	1.2312754	8			
ENSG0000	7.9999545	0.8561078	3.19E-05	3.32E-04	CD7
0173762	9	1			
ENSG0000	1.0073146	3.2775732	3.21E-05	3.33E-04	LRIF1
0121931	4	5			
ENSG0000	1.0955962	4.5925004	3.21E-05	3.33E-04	TRIM34
0258659	7	5			
ENSG0000	-	5.7629872	3.21E-05	3.33E-04	CENPO
0138092	1.9541249	3			
ENSG0000	-	3.3708263	3.25E-05	3.36E-04	HSPB1
0106211	1.2553849	2			
ENSG0000	-	3.4331715	3.25E-05	3.37E-04	ARHGEF4
0136002	1.9035889	1			
ENSG0000	0.9312001	5.1544784	3.31E-05	3.41E-04	PPP2R1B
0137713	1				
ENSG0000	-	4.9122111	3.34E-05	3.44E-04	ABHD11
0106077	0.6412149	1			
ENSG0000	1.4484896	4.7869319	3.33E-05	3.44E-04	XPNPEP1
0108039	7	8			
ENSG0000	0.7701484	7.6968149	3.36E-05	3.46E-04	TPBG
0146242	4	6			
ENSG0000	-0.872294	10.634523	3.37E-05	3.46E-04	COL5A1
0130635					
ENSG0000	-	4.9416089	3.42E-05	3.51E-04	GLI2
0074047	1.8851653	6			
ENSG0000	-	2.8393810	3.43E-05	3.51E-04	TCFL5
0101190	1.3933944	2			
ENSG0000	0.7345727	7.2035893	3.43E-05	3.52E-04	NRSN2
0125841		3			
ENSG0000	1.5260127	8.7141890	3.44E-05	3.52E-04	SIRPA
0198053	6	2			

ENSG0000	0.9358805	7.2317897	3.49E-05	3.57E-04	CCDC50
0152492		6			
ENSG0000	0.8094062	5.0763612	3.51E-05	3.58E-04	GORAB
0120370	4	9			
ENSG0000	1.0246352	3.5590230	3.54E-05	3.62E-04	ABCC9
0069431	3	5			
ENSG0000	1.8884713	4.1126730	3.55E-05	3.62E-04	ENO2
0111674	5	7			
ENSG0000	-	6.7721078	3.55E-05	3.62E-04	AMZ2
0196704	0.6326277	7			
ENSG0000	-2.125146	3.9806259	3.60E-05	3.65E-04	KIF24
0186638		2			
ENSG0000	-	3.6393277	3.60E-05	3.65E-04	CCDC113
0103021	1.7741472	4			
ENSG0000	-	4.7793154	3.61E-05	3.65E-04	PALS2
0105926	1.0535591	8			
ENSG0000	6.8703595	-0.995845	3.60E-05	3.65E-04	CALHM6
0188820	4				
ENSG0000	7.4887976	-	3.66E-05	3.71E-04	ICAM4
0105371	2	0.3087845			
ENSG0000	1.1881995	6.0666061	3.69E-05	3.73E-04	NAGK
0124357	5	1			
ENSG0000	0.5802939	4.6858692	3.70E-05	3.74E-04	TMEM234
0160055	8	4			
ENSG0000	-	5.6866618	3.73E-05	3.76E-04	UCHL5
0116750	0.8954912	1			
ENSG0000	-	6.1254920	3.75E-05	3.78E-04	KNSTRN
0128944	1.7951038	5			
ENSG0000	0.9780009	9.4428589	3.84E-05	3.87E-04	SQSTM1
0161011	3	2			
ENSG0000	-	6.3672361	3.88E-05	3.90E-04	TEX2
0136478	0.6737599	8			
ENSG0000	3.4927516	3.7672297	3.90E-05	3.92E-04	IL7R
0168685	6	3			
ENSG0000	-	3.7722721	3.92E-05	3.93E-04	SEPHS1
0086475	1.1181208	3			
ENSG0000	-	6.1614671	3.95E-05	3.96E-04	FIP1L1
0145216	0.5313139				
ENSG0000	0.8762028	6.7659436	3.95E-05	3.96E-04	RBPM5
0157110		4			
ENSG0000	1.3331949	4.6184182	4.03E-05	4.04E-04	FAM47E-
0272414	7	2			STBD1
ENSG0000	-	6.2721192	4.06E-05	4.06E-04	POLE3
0148229	0.8319359	5			

ENSG0000	4.2334122	0.9365574	4.10E-05	4.10E-04	GCA
0115271	9	5			
ENSG0000	-	5.8243915	4.11E-05	4.10E-04	CAMK2G
0148660	0.4774164	5			
ENSG0000	-	4.1295778	4.13E-05	4.11E-04	COPS3
0141030	1.1109653	1			
ENSG0000	0.5911224	5.7679307	4.21E-05	4.19E-04	SETDB1
0143379	1	5			
ENSG0000	2.0824336	2.2585917	4.29E-05	4.27E-04	GTPBP1
0100226	9	9			
ENSG0000	-	5.0780516	4.29E-05	4.27E-04	ANKH
0154122	2.0626047	8			
ENSG0000	1.3600825	5.2562472	4.39E-05	4.36E-04	TBKBP1
0198933	7	5			
ENSG0000	-	4.5967938	4.41E-05	4.37E-04	ARHGEF9
0131089	0.9082436	4			
ENSG0000	-	3.8946604	4.45E-05	4.39E-04	GNG2
0186469	1.2471393	7			
ENSG0000	-	5.5420836	4.44E-05	4.39E-04	GET1
0182093	0.9182224	6			
ENSG0000	0.6894271	6.6663723	4.45E-05	4.39E-04	ZBED1
0214717	5	8			
ENSG0000	-	9.7125197	4.44E-05	4.39E-04	MPRIP
0133030	1.0171872	5			
ENSG0000	-	2.4491302	4.46E-05	4.40E-04	ADAMTS7
0136378	2.4260286				
ENSG0000	0.4924531	6.4780050	4.47E-05	4.40E-04	MED25
0104973	4	7			
ENSG0000	0.5946935	7.5138441	4.46E-05	4.40E-04	DOCK7
0116641	6	4			
ENSG0000	-	6.3621433	4.52E-05	4.44E-04	RNF167
0108523	0.9154243				
ENSG0000	-0.489946	6.7618234	4.62E-05	4.54E-04	APEH
0164062		9			
ENSG0000	-	6.1518551	4.69E-05	4.60E-04	KAZALD1
0107821	2.4497888	4			
ENSG0000	-	7.0689958	4.72E-05	4.63E-04	UBA2
0126261	0.5022777	3			
ENSG0000	0.6044335	8.7154464	4.73E-05	4.64E-04	ECE1
0117298	3	5			
ENSG0000	-	6.2818507	4.78E-05	4.68E-04	C19orf48
0167747	1.4366688	7			
ENSG0000	-	3.8164619	4.79E-05	4.68E-04	PTPDC1
0158079	1.0694815				

ENSG0000	-	4.7843358	4.83E-05	4.72E-04	ABRAXAS1
0163322	0.7772105	9			
ENSG0000	-	6.2897208	4.84E-05	4.72E-04	KIAA0232
0170871	0.6629579	6			
ENSG0000	-	6.2750873	4.91E-05	4.78E-04	DGKA
0065357	1.2387212	4			
ENSG0000	1.7264489	2.1379527	4.91E-05	4.78E-04	CMTR1
0137200		4			
ENSG0000	-	4.0565045	4.93E-05	4.78E-04	BCS1L
0074582	0.9820307	1			
ENSG0000	-	5.7757914	4.94E-05	4.78E-04	FAM136A
0035141	0.4909161	8			
ENSG0000	-1.16981	6.5277449	4.93E-05	4.78E-04	MAPKAPK3
0114738		1			
ENSG0000	-	10.080398	4.93E-05	4.78E-04	RPL17
0265681	0.6224277	9			
ENSG0000	-	3.3326020	4.96E-05	4.81E-04	HASPIN
0177602	2.1992088	6			
ENSG0000	-0.510294	7.893533	4.98E-05	4.82E-04	SAMD4B
0179134					
ENSG0000	3.4466110	-	4.99E-05	4.83E-04	MT1JP
0255986	3	0.1378507			
ENSG0000	2.9109401	3.3887164	5.01E-05	4.83E-04	ALDOC
0109107	2	6			
ENSG0000	-	5.7762709	5.02E-05	4.85E-04	RARA
0131759	0.6361507	7			
ENSG0000	-	1.5452937	5.04E-05	4.85E-04	FBXO43
0156509	2.3024058	5			
ENSG0000	-	9.8760471	5.07E-05	4.88E-04	RPS6
0137154	0.7990972	2			
ENSG0000	1.2660887	6.3484642	5.09E-05	4.90E-04	LAYN
0204381	7	4			
ENSG0000	0.6528581	5.3767446	5.18E-05	4.98E-04	HDHD5
0069998	3	3			
ENSG0000	0.6393549	6.3955313	5.20E-05	4.99E-04	PSMD12
0197170	3	7			
ENSG0000	3.8354178	0.2585161	5.22E-05	5.00E-04	TNFSF14
0125735	1	6			
ENSG0000	-	5.3843745	5.26E-05	5.04E-04	CEP78
0148019	1.3785475	2			
ENSG0000	2.4657046	6.4785271	5.28E-05	5.05E-04	TRANK1
0168016	4	6			
ENSG0000	-	7.6271217	5.39E-05	5.15E-04	SEC11A
0140612	0.3380166	5			

ENSG0000	1.0736722	5.684134	5.46E-05	5.21E-04	JMJD6
0070495	4				
ENSG0000	-	6.5864767	5.45E-05	5.21E-04	GLOD4
0167699	0.5047027	2			
ENSG0000	-	4.5787064	5.49E-05	5.23E-04	CHML
0203668	1.3631931	8			
ENSG0000	1.7495344	6.3574308	5.61E-05	5.34E-04	BOC
0144857	4	7			
ENSG0000	0.6944822	6.5204078	5.63E-05	5.35E-04	KIAA1191
0122203	9	9			
ENSG0000	0.7355968	5.7617535	5.68E-05	5.40E-04	FMR1
0102081		1			
ENSG0000	-	7.1685939	5.77E-05	5.48E-04	ECT2
0114346	1.0921664	2			
ENSG0000	0.9478435	5.7322533	5.79E-05	5.49E-04	NME3
0103024		9			
ENSG0000	3.0829328	1.5301365	5.82E-05	5.51E-04	MT1A
0205362	1	7			
ENSG0000	0.4128398	5.3532317	5.87E-05	5.56E-04	FLAD1
0160688	5	7			
ENSG0000	1.0606623	8.2668506	5.93E-05	5.60E-04	UGP2
0169764					
ENSG0000	4.9927023	1.9373116	5.94E-05	5.61E-04	SCO2
0284194	5	4			
ENSG0000	0.9089634	4.4839048	5.95E-05	5.62E-04	TOMM40L
0158882	1	9			
ENSG0000	0.8751426	5.2999719	6.05E-05	5.70E-04	ACTR6
0075089	9	4			
ENSG0000	2.1549482	5.8370753	6.05E-05	5.70E-04	ADCY4
0129467	7	6			
ENSG0000	-	3.4384170	6.11E-05	5.75E-04	CIT
0122966	2.0872171	1			
ENSG0000	-0.971657	3.9540045	6.11E-05	5.75E-04	ZNF771
0179965		3			
ENSG0000	-	4.7157782	6.13E-05	5.75E-04	SLC9A3
0066230	0.6278261	5			
ENSG0000	1.1038665	5.7565982	6.18E-05	5.79E-04	SEMA4B
0185033		9			
ENSG0000	1.2757720	3.6428496	6.21E-05	5.81E-04	PDP1
0164951	4	3			
ENSG0000	-	5.1919251	6.21E-05	5.81E-04	PNKD
0127838	0.6306752	3			
ENSG0000	-1.789311	7.2911942	6.21E-05	5.81E-04	PYCR1
0183010					

ENSG0000	5.1581896	2.7538197	6.32E-05	5.90E-04	C4B
0224389		4			
ENSG0000	-	5.6089034	6.35E-05	5.92E-04	PTPN13
0163629	2.2060993	2			
ENSG0000	0.6475227	4.3114342	6.36E-05	5.93E-04	R3HCC1L
0166024	3	4			
ENSG0000	0.7576966	3.8959959	6.39E-05	5.95E-04	CNTLN
0044459	1	2			
ENSG0000	0.9831716	7.2098358	6.43E-05	5.99E-04	FAM111A
0166801	3	2			
ENSG0000	0.6213551	4.7468695	6.48E-05	6.03E-04	LIG4
0174405	5				
ENSG0000	-	4.5114290	6.49E-05	6.03E-04	LARP1B
0138709	0.7892548	9			
ENSG0000	-	7.2984652	6.56E-05	6.08E-04	HDAC2
0196591	0.4776021	5			
ENSG0000	-	4.1753579	6.58E-05	6.10E-04	DBF4B
0161692	1.9430728	4			
ENSG0000	2.1050904	10.542387	6.59E-05	6.10E-04	SULF1
0137573	8	7			
ENSG0000	0.7530912	4.7164625	6.62E-05	6.13E-04	YIPF1
0058799	3	5			
ENSG0000	-	6.7607110	6.63E-05	6.13E-04	EIF4E
0151247	0.4716503	8			
ENSG0000	-	3.8851607	6.63E-05	6.13E-04	FANCI
0140525	2.2997791	1			
ENSG0000	1.0379530	2.4586025	6.66E-05	6.15E-04	FKBP1B
0119782	9	4			
ENSG0000	-	5.9942619	6.76E-05	6.23E-04	PREPL
0138078	0.8527057	8			
ENSG0000	0.6772529	5.4158683	6.82E-05	6.28E-04	SOAT1
0057252	3				
ENSG0000	-	3.8875142	6.86E-05	6.30E-04	OSBPL6
0079156	1.7150542				
ENSG0000	1.1671771	4.4817744	6.86E-05	6.30E-04	CPEB4
0113742	6				
ENSG0000	-	5.9106722	6.86E-05	6.30E-04	KDM1B
0165097	0.6563646	3			
ENSG0000	-	5.4859757	6.88E-05	6.31E-04	SMG9
0105771	0.8523009	3			
ENSG0000	-	5.6367098	6.90E-05	6.32E-04	IFT122
0163913	0.7320955	6			
ENSG0000	5.0592737	1.3253015	7.22E-05	6.60E-04	ZC3H12A
0163874	3	6			

ENSG0000	-	4.8970002	7.29E-05	6.66E-04	NFATC3
0072736	0.8843857	8			
ENSG0000	-	1.5818713	7.32E-05	6.68E-04	GDF11
0135414	3.2100753	5			
ENSG0000	-	6.7078404	7.35E-05	6.71E-04	GAS2L1
0185340	0.6885943	2			
ENSG0000	-	11.689890	7.42E-05	6.76E-04	PLEC
0178209	0.6649721	8			
ENSG0000	1.7546595	6.8867920	7.42E-05	6.76E-04	ENC1
0171617	6	5			
ENSG0000	0.4808178	6.0611354	7.45E-05	6.78E-04	N4BP2L2
0244754	1				
ENSG0000	-	8.0634779	7.52E-05	6.83E-04	EMP1
0134531	0.7149476	2			
ENSG0000	-	5.8556073	7.54E-05	6.84E-04	MYL6B
0196465	0.6140812	4			
ENSG0000	-	7.355086	7.61E-05	6.90E-04	NIN
0100503	0.5673397				
ENSG0000	-	6.9740587	7.63E-05	6.91E-04	MAPK14
0112062	0.3707046	8			
ENSG0000	-	6.0989995	7.66E-05	6.94E-04	PEG10
0242265	2.3485807	1			
ENSG0000	2.4396276	5.9758729	7.69E-05	6.96E-04	TFPI2
0105825	3	7			
ENSG0000	2.0441847	2.7403463	7.78E-05	7.03E-04	RMC1
0141452	4	4			
ENSG0000	-	4.5645468	7.85E-05	7.08E-04	TRIM24
0122779	0.5491296	8			
ENSG0000	0.4965774	6.1006950	7.86E-05	7.08E-04	CRNKL1
0101343	3	8			
ENSG0000	-	6.5138512	7.84E-05	7.08E-04	EPB41L1
0088367	1.2287933	1			
ENSG0000	-	5.8275806	7.87E-05	7.08E-04	SORBS2
0154556	2.0019889	7			
ENSG0000	-	3.0441675	7.88E-05	7.09E-04	DCLK2
0170390	1.9268282	4			
ENSG0000	0.8156463	5.1719529	7.89E-05	7.09E-04	WDR11
0120008	9	7			
ENSG0000	-	3.7155953	7.91E-05	7.09E-04	SPATA33
0167523	0.9271627	9			
ENSG0000	-0.647515	5.3317658	7.90E-05	7.09E-04	KLHL36
0135686					
ENSG0000	0.7625764	5.8561708	7.99E-05	7.16E-04	RFXANK
0064490	9	2			

ENSG0000	-0.852668	4.6795684	8.01E-05	7.16E-04	ME3
0151376					
ENSG0000	1.4391426	5.5694591	8.01E-05	7.16E-04	MXI1
0119950	3	4			
ENSG0000	-	5.9637138	8.09E-05	7.23E-04	FAM98B
0171262	0.7012696	4			
ENSG0000	0.6606986	5.9936515	8.10E-05	7.23E-04	RPS6KC1
0136643	3	4			
ENSG0000	-	3.9955441	8.17E-05	7.29E-04	MCF2L
0126217	2.5466337	2			
ENSG0000	0.4354897	5.9318051	8.20E-05	7.30E-04	WDR55
0120314	8	7			
ENSG0000	0.6669718	5.6095201	8.23E-05	7.33E-04	RILPL1
0188026	9	5			
ENSG0000	0.8925211	5.8300317	8.35E-05	7.42E-04	ZDHHC9
0188706	1	4			
ENSG0000	-	6.6383625	8.35E-05	7.42E-04	ALDH7A1
0164904	0.7100948	9			
ENSG0000	-	1.5286244	8.38E-05	7.43E-04	CMTM1
0089505	1.7898301	4			
ENSG0000	0.9529067	2.2891496	8.40E-05	7.45E-04	MAP10
0212916	2	1			
ENSG0000	0.4586928	6.3477053	8.44E-05	7.47E-04	MADD
0110514	9	6			
ENSG0000	5.9339704	2.1664820	8.47E-05	7.50E-04	C4A
0244731	5	3			
ENSG0000	-	9.6023354	8.56E-05	7.57E-04	DSTN
0125868	0.8372944	7			
ENSG0000	8.7221984	-0.281882	8.81E-05	7.78E-04	GBP4
0162654	7				
ENSG0000	2.5495153	4.4524139	8.84E-05	7.80E-04	CGNL1
0128849	3	1			
ENSG0000	1.9941212	3.188289	8.87E-05	7.82E-04	BCL6
0113916	3				
ENSG0000	-	4.8117598	8.90E-05	7.84E-04	NCAPG
0109805	3.8088436	3			
ENSG0000	-	5.2234965	8.94E-05	7.87E-04	DCAKD
0172992	0.6108297	5			
ENSG0000	-	5.2235648	8.97E-05	7.89E-04	SDR39U1
0100445	0.6069562	5			
ENSG0000	-	7.0853333	8.98E-05	7.89E-04	PCDHGC3
0240184	1.2276712	7			
ENSG0000	0.6075078	8.3890259	9.04E-05	7.93E-04	TAX1BP1
0106052	4				

ENSG0000	1.2266536	4.6632089	9.09E-05	7.97E-04	MKRN1
0133606	4	2			
ENSG0000	3.9714553	3.5455851	9.17E-05	8.03E-04	IL1RL1
0115602	2	9			
ENSG0000	-	3.1705870	9.29E-05	8.13E-04	ENOPH1
0145293	1.4380216	3			
ENSG0000	-	5.1802749	9.29E-05	8.13E-04	ZNF252P
0196922	0.5850718	9			
ENSG0000	1.1037854	4.8695880	9.32E-05	8.13E-04	EME2
0197774	7	1			
ENSG0000	-	6.8881532	9.31E-05	8.13E-04	TLN2
0171914	1.3388926	4			
ENSG0000	-	2.7361949	9.34E-05	8.14E-04	CA5B
0169239	2.6334361	6			
ENSG0000	4.2683803	3.8986082	9.55E-05	8.32E-04	TRAF1
0056558	4	9			
ENSG0000	0.9140515	6.6191172	9.55E-05	8.32E-04	ZNF281
0162702	3	7			
ENSG0000	1.4534383	5.8460861	9.60E-05	8.35E-04	OTUD4
0164164	8	7			
ENSG0000	-	4.0690849	9.65E-05	8.39E-04	CEP41
0106477	0.8255078	9			
ENSG0000	0.7851258	6.6653323	9.70E-05	8.42E-04	AOPEP
0148120	8				
ENSG0000	-	7.3015588	9.77E-05	8.47E-04	MKI67
0148773	4.3242566				
ENSG0000	0.5466089	7.3040641	9.92E-05	8.59E-04	TP53BP1
0067369	6	1			
ENSG0000	2.4637464	1.5706617	9.95E-05	8.61E-04	GPR146
0164849	8	4			
ENSG0000	0.4662334	5.5036050	1.00E-04	8.65E-04	SLC25A25
0148339	6	1			
ENSG0000	0.6745903	5.9254005	1.00E-04	8.67E-04	GGA3
0125447	1	6			
ENSG0000	-	5.3580682	1.02E-04	8.84E-04	CC2D2A
0048342	0.9174437	2			
ENSG0000	0.5708427	8.0281639	1.03E-04	8.91E-04	FAM126A
0122591	5	3			
ENSG0000	-	3.8213922	1.04E-04	8.92E-04	PPM1D
0170836	0.9152482	4			
ENSG0000	-	3.0848014	1.04E-04	8.93E-04	SHROOM3
0138771	2.2124771	3			
ENSG0000	-	2.5001384	1.04E-04	8.96E-04	C16orf95
0260456	1.4916982	7			

ENSG0000	1.6638904	2.7329462	1.05E-04	9.01E-04	IKZF2
0030419	4	5			
ENSG0000	0.7994949	3.9450814	1.05E-04	9.04E-04	ZNF438
0183621		7			
ENSG0000	-2.367421	5.2947799	1.05E-04	9.04E-04	CARD10
0100065		2			
ENSG0000	0.8124678	4.4579182	1.06E-04	9.07E-04	SLC50A1
0169241	9				
ENSG0000	-	6.9782811	1.07E-04	9.16E-04	ZHX3
0174306	0.8349689				
ENSG0000	-	7.4741182	1.07E-04	9.17E-04	MRPL37
0116221	0.4770473	4			
ENSG0000	0.9235855	5.3079154	1.08E-04	9.24E-04	TTC39B
0155158	3	2			
ENSG0000	0.9827694	5.9212765	1.09E-04	9.27E-04	C1GALT1
0106392	4	1			
ENSG0000	-0.647392	7.8436075	1.09E-04	9.27E-04	SYNCRIP
0135316		1			
ENSG0000	-	1.739525	1.10E-04	9.34E-04	SH3TC2
0169247	2.9254928				
ENSG0000	-	6.5410708	1.10E-04	9.34E-04	MTMR6
0139505	0.6079514	6			
ENSG0000	-	3.4993054	1.10E-04	9.34E-04	LIAS
0121897	0.8207135	3			
ENSG0000	0.4398686	7.5353502	1.10E-04	9.37E-04	RAB11FIP5
0135631	8	4			
ENSG0000	-	2.7651371	1.11E-04	9.41E-04	RAD21
0164754	2.0176783				
ENSG0000	-	3.3881776	1.11E-04	9.44E-04	RIN1
0174791	1.0726318	4			
ENSG0000	-	4.2236968	1.13E-04	9.54E-04	ROR1
0185483	2.3332597	5			
ENSG0000	-	4.7588505	1.14E-04	9.62E-04	PCYT2
0185813	1.2105496	4			
ENSG0000	0.3290804	6.8372365	1.16E-04	9.81E-04	TMEM127
0135956	5	6			
ENSG0000	0.7519875	6.9141610	1.17E-04	9.87E-04	SUPT5H
0196235	8	7			
ENSG0000	1.0096877	5.0978535	1.17E-04	9.87E-04	NPEPPS
0141279	8	8			
ENSG0000	-	5.9851967	1.18E-04	9.99E-04	PABIR2
0156504	0.7015794	9			
ENSG0000	-	3.3090375	1.19E-04	0.0010032	LACTB2
0147592	2.3223625	1		4	

ENSG0000	0.4149696	6.1060807	1.20E-04	0.0010110	RBM4
0173933	7	8		9	
ENSG0000	0.4924209	5.4692487	1.20E-04	0.0010133	NME6
0172113	2	5		2	
ENSG0000	0.8982982	6.3681349	1.21E-04	0.0010168	GSDME
0105928	5	8		1	
ENSG0000	2.0801391	5.9215972	1.21E-04	0.0010194	DPYSL3
0113657	1			2	
ENSG0000	1.0674130	4.0804579	1.22E-04	0.0010214	SLC35C1
0181830	5			3	
ENSG0000	1.0242994	5.9030802	1.22E-04	0.0010253	GPBP1
0062194		8		7	
ENSG0000	0.5079199	5.8596696	1.23E-04	0.0010281	SNAPC2
0104976	9	3		3	
ENSG0000	-	6.1684345	1.24E-04	0.0010415	IQSEC1
0144711	0.6273144	3		1	
ENSG0000	0.4631874	6.5487361	1.25E-04	0.0010475	ATAD1
0138138	1	2		8	
ENSG0000	-	4.5561454	1.26E-04	0.0010538	CAD
0084774	1.1725511	1		1	
ENSG0000	1.0653454	4.9112849	1.27E-04	0.0010622	HPS3
0163755	5			3	
ENSG0000	-	3.8012062	1.28E-04	0.0010655	CYB5RL
0215883	1.1075928	1			
ENSG0000	-	4.7542043	1.28E-04	0.0010696	MCM10
0065328	1.9202098	8		8	
ENSG0000	-	3.4125639	1.29E-04	0.0010704	ADORA2B
0170425	2.1465024	4		2	
ENSG0000	-0.313775	9.3614650	1.29E-04	0.0010717	ATP5F1A
0152234		9		9	
ENSG0000	0.2705578	8.3266248	1.31E-04	0.0010920	STAU1
0124214	9	7		5	
ENSG0000	-	1.7057684	1.32E-04	0.0010941	CDC25C
0158402	3.2462236	1		5	
ENSG0000	-	4.1126544	1.32E-04	0.0010967	TCF7
0081059	3.4521568	4		8	
ENSG0000	-	6.5915383	1.32E-04	0.0010973	MRPS27
0113048	0.4222819	2		1	
ENSG0000	0.6680006	5.8646083	1.35E-04	0.0011202	OGA
0198408	1	1		9	
ENSG0000	-	5.8114378	1.36E-04	0.0011245	FCHSD2
0137478	0.6869099	8		4	
ENSG0000	-	4.7219793	1.36E-04	0.0011267	TMEM267
0151881	0.9201593	9		7	

ENSG0000	-0.547975	5.4673140	1.37E-04	0.0011298	FBXW8
0174989		9		5	
ENSG0000	0.5550857	6.3023184	1.38E-04	0.0011376	RNF19A
0034677	4	4			
ENSG0000	-	3.0006137	1.39E-04	0.0011431	NETO2
0171208	1.7960667	2		7	
ENSG0000	0.5930425	6.2302380	1.40E-04	0.0011522	CD2BP2
0169217	1	7		9	
ENSG0000	1.0792108	5.3073740	1.40E-04	0.0011555	NFKB1
0109320	1	1		6	
ENSG0000	0.5986730	6.3301305	1.42E-04	0.0011688	UBE2F
0184182	9	7		8	
ENSG0000	-	4.4237579	1.45E-04	0.0011895	BIRC5
0089685	3.0992172	7		2	
ENSG0000	-	6.7006497	1.45E-04	0.0011914	TP53
0141510	0.6172531	3		8	
ENSG0000	-	5.7115714	1.46E-04	0.0011964	NAA38
0183011	0.5951829	7			
ENSG0000	0.6338232	5.9014013	1.46E-04	0.0011964	C18orf32
0177576	8	9			
ENSG0000	0.5415156	5.0793641	1.46E-04	0.0011988	DEDD2
0160570	8	9			
ENSG0000	-	6.9923248	1.47E-04	0.0011988	FDPS
0160752	0.5939953	6			
ENSG0000	2.4538489	1.4670603	1.48E-04	0.0012117	WDFY1
0085449	9	6		5	
ENSG0000	-	9.5344767	1.49E-04	0.0012155	NQO1
0181019	1.0591841	3		9	
ENSG0000	-	6.7749194	1.49E-04	0.0012199	SPIRE1
0134278	0.6893916	9		5	
ENSG0000	-1.945958	3.3077100	1.50E-04	0.0012220	CKS1B
0173207		3		3	
ENSG0000	-	3.2380749	1.50E-04	0.0012226	ATPCKMT
0150756	1.6395341	3			
ENSG0000	-	4.5048956	1.50E-04	0.0012229	COX15
0014919	0.5377269			7	
ENSG0000	-	4.7418937	1.51E-04	0.0012290	GRK6
0198055	1.3098633	9		5	
ENSG0000	0.7706930	2.7452799	1.52E-04	0.0012345	WHAMMP1
0223509	4	8		9	
ENSG0000	-	8.0211067	1.52E-04	0.0012373	TRAK1
0182606	0.8986627	5			
ENSG0000	-	4.9237655	1.53E-04	0.0012418	APRT
0198931	0.7294877	6		1	

ENSG0000	0.5845308	5.6613443	1.55E-04	0.0012520	ZGPAT
0197114	9	2		9	
ENSG0000	0.6979555	4.5560293	1.55E-04	0.0012534	GALK2
0156958	9	7		7	
ENSG0000	0.7032410	6.6640372	1.55E-04	0.0012543	NUPR1
0176046	3	2		8	
ENSG0000	0.7976935	4.4483617	1.55E-04	0.0012557	CDC42SE1
0197622	2	6		7	
ENSG0000	-	6.4820222	1.57E-04	0.0012697	WDR5
0196363	0.5294257	3		2	
ENSG0000	-	2.1828713	1.58E-04	0.0012741	KCNIP3
0115041	1.9357118	8		8	
ENSG0000	-	9.1566556	1.58E-04	0.0012752	RPS15A
0134419	0.4814403	9		8	
ENSG0000	-	5.6181796	1.59E-04	0.0012813	CCP110
0103540	0.7959471	9		1	
ENSG0000	1.1239332	1.7947139	1.60E-04	0.0012866	CISH
0114737	9	3		1	
ENSG0000	1.1302618	3.2277129	1.60E-04	0.0012866	NCK2
0071051	9	2		1	
ENSG0000	-0.634223	6.9203920	1.60E-04	0.0012866	ICMT
0116237		2		1	
ENSG0000	0.4625289	6.8320017	1.60E-04	0.0012866	SIN3B
0127511	4	5		1	
ENSG0000	-	2.9188213	1.61E-04	0.0012894	APPL2
0136044	2.5973178	9		6	
ENSG0000	-	4.4905982	1.61E-04	0.0012920	AAAS
0094914	1.0284073	8		4	
ENSG0000	0.6983776	6.4122106	1.64E-04	0.0013104	DHX36
0174953	8	5		3	
ENSG0000	0.8991634	2.9769157	1.64E-04	0.0013105	GPR135
0181619	1	9		7	
ENSG0000	-	7.1842089	1.64E-04	0.0013136	TNPO3
0064419	0.4070735			1	
ENSG0000	14.979127	4.9179651	1.65E-04	0.0013169	IDO1
0131203	5	6		2	
ENSG0000	-	5.0703115	1.67E-04	0.0013295	MMS22L
0146263	1.7033147	6		8	
ENSG0000	0.6058541	7.0307528	1.69E-04	0.0013469	KDM5B
0117139	7	3		8	
ENSG0000	0.9734148	5.9270414	1.69E-04	0.0013480	ISY1-
0261796	9	8		8	RAB43
ENSG0000	-	3.1829856	1.70E-04	0.0013554	ZNF788P
0214189	1.0967615	8		9	

ENSG0000	-	6.6968256	1.70E-04	0.0013554	CDK16
0102225	0.6194517	3		9	
ENSG0000	2.7160253	1.6547119	1.71E-04	0.0013582	H2BC4
0180596	8	5		1	
ENSG0000	-1.241707	3.6752456	1.71E-04	0.0013598	SPATC1L
0160284		3		8	
ENSG0000	-	6.7084369	1.73E-04	0.0013724	TPCN1
0186815	0.8824718	6		2	
ENSG0000	0.6053432	6.7265647	1.73E-04	0.0013725	GPR108
0125734	4	9		2	
ENSG0000	0.8725370	5.6974410	1.75E-04	0.0013841	GPR161
0143147	5	3		3	
ENSG0000	3.1897367	3.1009997	1.76E-04	0.0013879	PARP8
0151883	2	9		4	
ENSG0000	-	5.0164386	1.76E-04	0.0013879	CDYL
0153046	0.6220704	4		4	
ENSG0000	-	9.9436867	1.76E-04	0.0013879	HNRNPA1
0135486	0.6906389	9		4	
ENSG0000	-	4.4176476	1.76E-04	0.0013906	C22orf39
0242259	0.6478943	9		9	
ENSG0000	1.0075189	6.3707325	1.77E-04	0.0013922	PLAUR
0011422	9	3			
ENSG0000	-	3.4098438	1.78E-04	0.0014044	PCDHGA1
0253873	1.6846746	3		1	1
ENSG0000	1.6157966	7.7741297	1.79E-04	0.0014053	LUM
0139329	4	1		6	
ENSG0000	1.4198507	8.5677764	1.80E-04	0.0014181	WNT5A
0114251	8	6		7	
ENSG0000	0.4852015	6.7132843	1.81E-04	0.0014203	ZNF655
0197343	7	6		7	
ENSG0000	-	3.8925965	1.82E-04	0.0014279	FAM86C1P
0158483	0.9362124	2		2	
ENSG0000	-	3.5209986	1.82E-04	0.0014295	GATD1
0177225	0.9547902	9		1	
ENSG0000	-	3.5822871	1.82E-04	0.0014305	LYSMD4
0183060	0.8586726				
ENSG0000	0.8284788	7.7734120	1.85E-04	0.0014501	PHLDA1
0139289	9	5			
ENSG0000	4.2219323	3.7916046	1.86E-04	0.0014539	APOL2
0128335	7	5		1	
ENSG0000	0.7713898	5.9702794	1.86E-04	0.0014539	DGLUCY
0133943	6	9		1	
ENSG0000	-	6.8601679	1.86E-04	0.0014552	KDM1A
0004487	0.4541117	1		6	

ENSG0000	1.3942024	3.7123345	0.0001864	0.0014555	PLEKHA4
0105559	4	7	2	7	
ENSG0000	-	5.2482825	1.87E-04	0.0014578	NSUN5P1
0223705	0.8967829			7	
ENSG0000	-	3.5203030	1.87E-04	0.0014586	NDUFS8
0110717	0.8774241	9		1	
ENSG0000	2.5850161	4.6821806	1.88E-04	0.0014657	HAS3
0103044	1	4		9	
ENSG0000	2.9535535	2.6251787	1.89E-04	0.0014679	IL18R1
0115604		3		5	
ENSG0000	-	7.1683830	1.89E-04	0.0014679	SLC25A39
0013306	0.4758432	1		5	
ENSG0000	2.7228615	2.7033388	1.89E-04	0.0014719	SYNPO
0171992	8	8		4	
ENSG0000	0.7603251	6.0700213	1.92E-04	0.0014923	RBMS3
0144642	9	7		6	
ENSG0000	-	4.1387771	1.93E-04	0.0014938	CENPI
0102384	2.8702066	3		8	
ENSG0000	-	4.3892961	1.93E-04	0.0014987	MRPS25
0131368	0.5078616	1		2	
ENSG0000	0.6381868	4.8094800	1.95E-04	0.0015118	WDR25
0176473	4	7		2	
ENSG0000	-	3.3991755	1.97E-04	0.0015219	POC1A
0164087	1.8078012	8		4	
ENSG0000	3.3900140	5.5510054	1.98E-04	0.0015310	C1R
0159403	8	8		9	
ENSG0000	0.6645160	7.5869259	1.98E-04	0.0015313	TMED10
0170348	3	3		5	
ENSG0000	1.2333118	2.2838755	1.99E-04	0.0015393	KLHL35
0149243	8	8		2	
ENSG0000	-	6.4226608	2.00E-04	0.0015425	PCBP4
0090097	0.7997848	3		4	
ENSG0000	0.8868331	8.6310184	2.02E-04	0.0015585	BCL9L
0186174	2	4		5	
ENSG0000	0.6630023	5.5017746	2.03E-04	0.0015652	POLR3D
0168495	5	7		3	
ENSG0000	-	2.9821988	2.04E-04	0.0015695	RBM4B
0173914	0.9951689				
ENSG0000	0.3950444	7.0414651	2.04E-04	0.0015695	DNAJB12
0148719	3	2			
ENSG0000	-0.85501	7.3962826	2.07E-04	0.0015882	PDLIM2
0120913		2		7	
ENSG0000	0.8992442	5.5653462	2.08E-04	0.0015930	NAV3
0067798	7	1		9	

ENSG0000	1.7741756	2.8480544	2.08E-04	0.0015939	DYNLT1
0146425	1	3		4	
ENSG0000	-	5.3143917	2.10E-04	0.0016059	ITPRID2
0138434	1.1464464	7		5	
ENSG0000	-1.214728	4.9055459	2.10E-04	0.0016077	CNTROB
0170037		1			
ENSG0000	-	6.7615211	2.12E-04	0.0016236	PTDSS1
0156471	0.4381065			9	
ENSG0000	0.4873401	7.9687970	2.13E-04	0.0016277	DAZAP2
0183283	5	4		5	
ENSG0000	-	4.0638858	2.13E-04	0.0016289	CCDC136
0128596	1.4253897	8		4	
ENSG0000	-	4.3211120	2.13E-04	0.0016289	C1orf112
0000460	1.1603856	7		4	
ENSG0000	0.5189113	6.1265752	2.14E-04	0.0016297	NKIRAS2
0168256		6		2	
ENSG0000	-	4.3801363	2.15E-04	0.0016357	ARHGAP11
0198826	3.2633921				A
ENSG0000	2.2064424	4.2552265	2.16E-04	0.0016425	BACH1
0156273				8	
ENSG0000	-	3.7054228	2.16E-04	0.0016457	SPAG7
0091640	0.9703568	4		9	
ENSG0000	1.6154326	0.9257016	2.18E-04	0.0016590	ANXA2R
0177721	9	4		1	
ENSG0000	-	5.4652281	2.19E-04	0.0016604	PRPSAP1
0161542	0.6602199			7	
ENSG0000	2.1839410	2.5140559	2.19E-04	0.0016638	RILP
0167705	1	6		1	
ENSG0000	1.2410710	3.1422228	2.22E-04	0.0016802	ANKRD44
0065413	9	3		1	
ENSG0000	1.2669704	4.2102488	2.24E-04	0.0016971	NAPA
0105402	7	8		4	
ENSG0000	2.3663273	2.3499704	2.25E-04	0.0017044	ROS1
0047936	4	9		5	
ENSG0000	-	3.8777995	2.27E-04	0.0017159	LINC02693
0212719	1.6784089	7		7	
ENSG0000	1.8135869	4.3364039	2.27E-04	0.0017164	SECISBP2L
0138593	6	4		4	
ENSG0000	-	6.8393082	2.27E-04	0.0017164	BRD8
0112983	0.6451077			4	
ENSG0000	-	4.7504695	2.28E-04	0.001724	GOLGA2P7
0225151	1.3010598	9			
ENSG0000	-0.538872	7.0631134	2.30E-04	0.0017370	COPS8
0198612		3		4	

ENSG0000	2.2761848	2.1490813	2.32E-04	0.0017480	CFAP251
0158023	2	2		5	
ENSG0000	-0.897617	4.1273867	2.33E-04	0.0017574	ALKBH8
0137760		6			
ENSG0000	-	3.5963543	2.34E-04	0.0017594	BZW2
0136261	2.0309548	4		8	
ENSG0000	1.7475558	6.0479451	2.35E-04	0.0017677	GLIS3
0107249	5	4		4	
ENSG0000	0.9131189	3.6785530	2.36E-04	0.0017712	U2AF1L4
0161265	6	1		2	
ENSG0000	0.3790760	5.3686603	2.37E-04	0.0017796	DUSP11
0144048	2	1		8	
ENSG0000	3.4286903	1.8719987	2.37E-04	0.0017801	ITGB8
0105855	2	7		1	
ENSG0000	0.5331073	6.1131302	2.39E-04	0.0017916	XPR1
0143324	3	6		1	
ENSG0000	0.6353339	3.8881252	2.40E-04	0.0017962	ZNF200
0010539	1	4		4	
ENSG0000	-	1.7413524	2.41E-04	0.0018002	FSCN1
0075618	1.8736335	5		7	
ENSG0000	-	3.5361825	2.42E-04	0.0018113	DCTN3
0137100	0.8718466	8		3	
ENSG0000	-	3.9817582	2.43E-04	0.0018142	RNASEH1
0171865	0.8328176	9		7	
ENSG0000	-	5.5091948	2.44E-04	0.0018203	BAIAP2
0175866	0.9195306	8		6	
ENSG0000	-	6.6858059	2.47E-04	0.0018376	ABHD4
0100439	0.9646602			7	
ENSG0000	0.6842670	7.1399977	2.46E-04	0.0018376	SLFN11
0172716	1	8		7	
ENSG0000	-	3.5044209	2.49E-04	0.0018517	RFC5
0111445	1.5274858	3		9	
ENSG0000	-	3.5997965	2.49E-04	0.0018517	PMS2P1
0078319	0.8629871	2		9	
ENSG0000	-	4.3203666	2.52E-04	0.0018750	KCNN4
0104783	3.0588337			5	
ENSG0000	8.6098655	-0.748402	2.53E-04	0.0018776	TLR2
0137462	9			2	
ENSG0000	-	2.3059920	2.53E-04	0.0018777	PTTG1
0164611	3.4181658	4		1	
ENSG0000	-	4.5237506	2.54E-04	0.0018811	AURKB
0178999	3.2272947	5		9	
ENSG0000	3.6141747	3.5985363	2.58E-04	0.0019129	FAM20A
0108950	5	9			

ENSG0000	-	5.5185838	2.58E-04	0.0019148	PAK1
0149269	0.5873059	2		7	
ENSG0000	-	3.1668802	2.59E-04	0.0019192	PRSS53
0151006	1.5264035	2		7	
ENSG0000	0.4956842	6.7421572	2.60E-04	0.0019267	SEC23B
0101310	5	7			
ENSG0000	-	7.0788651	2.62E-04	0.0019342	LSM4
0130520	0.7412164	9		5	
ENSG0000	-	7.3111944	2.62E-04	0.0019342	ZC3H13
0123200	0.3713275	1		5	
ENSG0000	-	5.4407851	2.63E-04	0.0019435	HAUS4
0092036	0.6589637	9		2	
ENSG0000	-	8.8388447	2.64E-04	0.0019435	SHMT2
0182199	0.7992049	8		2	
ENSG0000	3.2531839	1.2242302	2.64E-04	0.0019453	CAPN3
0092529	4	6		3	
ENSG0000	-1.757587	5.1175052	2.67E-04	0.0019670	SMC2
0136824		3		6	
ENSG0000	-	4.4810725	2.68E-04	0.0019701	HLTF
0071794	1.7306554	8		1	
ENSG0000	3.3254908	0.4343776	2.70E-04	0.0019810	KPNA5
0196911	8			2	
ENSG0000	0.7226492	5.1340821	2.70E-04	0.0019810	CLUAP1
0103351	7	2		2	
ENSG0000	-	5.502308	2.71E-04	0.0019845	SBDSP1
0225648	0.7726396			9	
ENSG0000	0.3966791	6.1243375	2.71E-04	0.0019845	CNIH4
0143771		7		9	
ENSG0000	0.5114374	5.6215087	2.71E-04	0.0019883	ZNF646
0167395	1	3		4	
ENSG0000	-	5.8276282	2.74E-04	0.0020051	MAMLD1
0013619	1.5477488	8		5	
ENSG0000	-	2.8373518	2.74E-04	0.0020084	C11orf80
0173715	1.4737885	9		8	
ENSG0000	3.7004009	2.7006963	2.75E-04	0.0020120	FOSL2
0075426	1	9		3	
ENSG0000	1.0152023	3.3080801	2.75E-04	0.0020120	C2orf81
0284308		7		3	
ENSG0000	-4.820159	0.7813016	2.76E-04	0.0020143	IQGAP3
0183856		3		2	
ENSG0000	-	2.7659809	2.82E-04	0.0020541	DTYMK
0168393	1.6210311	4		5	
ENSG0000	0.5460667	8.8269029	2.84E-04	0.0020676	SHISA5
0164054	8			2	

ENSG0000	-	4.2502805	2.85E-04	0.0020742	SPAG16
0144451	0.5022127	5		6	
ENSG0000	-	4.5848408	2.85E-04	0.0020742	INTS7
0143493	1.0724403	3		6	
ENSG0000	0.3722118	6.4749068	2.88E-04	0.0020931	DDX47
0213782	5	1		4	
ENSG0000	-	5.6645326	2.88E-04	0.0020933	BAX
0087088	0.8329235	3		2	
ENSG0000	-	6.0006384	2.90E-04	0.0021055	ZCCHC17
0121766	0.4377409	3		2	
ENSG0000	0.3475609	8.6559888	2.90E-04	0.0021055	CTNND1
0198561	7	7		2	
ENSG0000	0.5364193	4.5163598	2.91E-04	0.0021084	ZXDB
0198455	4	4			
ENSG0000	-	5.7798191	2.91E-04	0.0021084	UGDH
0109814	1.8628027	5			
ENSG0000	-	3.7705875	2.93E-04	0.0021183	PCOLCE
0106333	1.0156147	1		9	
ENSG0000	12.635118	3.3329347	2.94E-04	0.0021258	C15orf48
0166920	9				
ENSG0000	1.5692039	2.7960286	0.0002944	0.0021270	PRPF3
0117360	5		1	8	
ENSG0000	-	4.2836556	2.94E-04	0.0021270	GCAAT
0100116	0.8844007	7		8	
ENSG0000	1.2215218	4.1241890	2.95E-04	0.0021318	PDK1
0152256	9	2		7	
ENSG0000	-	5.5586975	2.96E-04	0.0021321	IFT80
0068885	0.9963618	4		4	
ENSG0000	2.0276210	1.6957464	2.97E-04	0.0021380	STARD4
0164211	9	6		4	
ENSG0000	-	5.5931575	2.97E-04	0.0021387	MPST
0128309	0.4882924	2		6	
ENSG0000	-	7.0430616	2.99E-04	0.0021481	PLCB3
0149782	0.7815612	5		7	
ENSG0000	0.7949244	5.5743806	3.00E-04	0.0021554	LMBR1L
0139636	3	6		8	
ENSG0000	-	2.8473729	3.01E-04	0.0021653	TMEM107
0179029	1.1785119	3		2	
ENSG0000	-	2.6205269	3.02E-04	0.0021704	GPB1
0164850	2.4046328	2		6	
ENSG0000	-	5.4684886	3.03E-04	0.0021719	TAF12
0120656	0.5353942	4		4	
ENSG0000	1.4353942	4.0835744	3.04E-04	0.0021747	C6orf62
0112308	1	6		2	

ENSG0000	-1.071721	5.0124482	3.03E-04	0.0021747	RPA3
0106399		5		2	
ENSG0000	-0.554193	6.2757623	3.04E-04	0.0021747	TXN2
0100348				2	
ENSG0000	0.4248293	9.2062446	3.06E-04	0.0021886	CLSTN1
0171603	2	7		1	
ENSG0000	-	0.9939122	3.07E-04	0.0021932	RTL9
0243978	3.6410816	1		6	
ENSG0000	2.3908184	1.9260196	3.07E-04	0.0021932	TMEM255B
0184497	2	5		6	
ENSG0000	-	5.5750322	3.08E-04	0.0021945	ARL16
0214087	0.5211292	2		8	
ENSG0000	-	4.0765320	3.10E-04	0.0022108	DNAAF2
0165506	0.5743747	3		4	
ENSG0000	-	7.0397300	3.11E-04	0.0022157	ADNP
0101126	0.3357082	5		2	
ENSG0000	0.4286805	7.1912964	3.14E-04	0.0022328	ECI2
0198721	7	6		9	
ENSG0000	-	4.3287921	3.14E-04	0.0022346	FAM98C
0130244	0.8427821	2		1	
ENSG0000	-	7.3282761	3.15E-04	0.0022419	BUB3
0154473	0.8241621	6		2	
ENSG0000	0.5444642	7.5374776	3.17E-04	0.0022496	TOR1AIP1
0143337	4	1		8	
ENSG0000	1.4869066	5.1127744	3.18E-04	0.0022569	MDGA1
0112139	9			8	
ENSG0000	-	6.1112815	3.20E-04	0.0022710	LAS1L
0001497	0.5337398	6		9	
ENSG0000	-	3.9486284	3.23E-04	0.0022892	LIN7A
0111052	2.0007003	8			
ENSG0000	0.4860616	5.3284548	3.26E-04	0.0023077	RUNDC1
0198863	7	5		9	
ENSG0000	-	9.8307184	3.27E-04	0.0023116	ATP2B4
0058668	0.8283434	1		1	
ENSG0000	-	6.8848491	3.27E-04	0.0023124	CUTA
0112514	0.5188993	6		3	
ENSG0000	0.4798705	7.7168590	0.0003279	0.0023176	STARD7
0084090		9		2	
ENSG0000	-	3.1296934	3.29E-04	0.0023262	EFCAB11
0140025	1.0099229	8		5	
ENSG0000	-	3.1416368	3.30E-04	0.0023275	CYP27C1
0186684	2.5744714	8		2	
ENSG0000	-	3.6184476	3.32E-04	0.0023351	PAXX
0148362	1.1278002	3		3	

ENSG0000	0.5175789	5.7078702	3.32E-04	0.0023351	VTI1A
0151532		5		3	
ENSG0000	-	6.1025851	3.31E-04	0.0023351	SLC30A6
0152683	0.3987775	9		3	
ENSG0000	-	6.3452659	3.32E-04	0.0023351	FOCAD
0188352	0.6483798			3	
ENSG0000	0.3323113	6.9069429	3.34E-04	0.0023499	SYVN1
0162298		6		6	
ENSG0000	0.5796680	4.6940328	3.37E-04	0.0023687	ZNF23
0167377	6	1		1	
ENSG0000	-	4.4302417	3.38E-04	0.0023751	MSTO1
0125459	0.9645693	7			
ENSG0000	2.0370899	1.3348386	3.42E-04	0.0023972	ACOT4
0177465	4	6		3	
ENSG0000	6.8825087	0.9187940	3.42E-04	0.0024011	ADORA2A
0128271		9		4	
ENSG0000	1.0803143	3.8461511	3.43E-04	0.0024053	ATXN7L1
0146776	1	8		9	
ENSG0000	0.7267730	6.2865824	3.44E-04	0.0024062	ZNF24
0172466	8	8		7	
ENSG0000	-	8.5163486	3.44E-04	0.0024062	FHL2
0115641	0.9941813	1		7	
ENSG0000	1.2111582	7.5203624	3.45E-04	0.0024102	SMAD7
0101665		4		4	
ENSG0000	2.5017368	2.0200507	3.48E-04	0.0024339	PKNOX1
0160199	2	3		3	
ENSG0000	0.4218839	6.4203805	3.50E-04	0.0024399	C17orf49
0258315	1	8		2	
ENSG0000	-	6.3975779	3.51E-04	0.0024457	MIB1
0101752	0.9014769	4		5	
ENSG0000	-	8.1641764	3.53E-04	0.0024606	GPX8
0164294	0.5674632	5		4	
ENSG0000	-	2.9619210	3.56E-04	0.0024761	NDUFB2
0090266	1.0511167	1		1	
ENSG0000	1.7470764	3.7963863	3.56E-04	0.0024777	DUXAP9
0225210	6	6			
ENSG0000	-	2.3096218	3.59E-04	0.0024972	SAAL1
0166788	1.7958276	1		1	
ENSG0000	-	5.1258299	3.59E-04	0.0024972	METRNL
0103260	0.8688466	6		1	
ENSG0000	0.9820663	8.0670035	3.60E-04	0.0024995	EPB41L3
0082397	4	7		6	
ENSG0000	0.6795407	3.1552427	3.62E-04	0.0025126	SGMS1
0198964	4	2		2	

ENSG0000	-	1.7022297	3.63E-04	0.0025154	EMC3-AS1
0180385	1.5316569	6			
ENSG0000	-	5.5655285	0.0003643	0.0025247	ARMC6
0105676	0.6536702	4	5	9	
ENSG0000	-0.622643	6.8684968	0.0003646	0.0025249	FTO
0140718		3	4	5	
ENSG0000	-	6.5031717	3.69E-04	0.0025484	LAPTM4B
0104341	0.8131152	6		9	
ENSG0000	0.6008435	9.8417551	3.69E-04	0.0025484	H3-3B
0132475	7	7		9	
ENSG0000	-0.377263	8.2599256	3.69E-04	0.0025484	HNRNPH3
0096746		6		9	
ENSG0000	-	3.3587697	3.70E-04	0.0025575	CENPK
0123219	2.1118499	6		6	
ENSG0000	1.0402040	5.4297554	3.71E-04	0.0025577	SH2D4A
0104611	3	5			
ENSG0000	-	3.5466889	3.76E-04	0.0025945	RPA1
0132383	1.2129027	9		3	
ENSG0000	0.7262942	3.0651789	3.77E-04	0.0025965	TMEM182
0170417	4	5		3	
ENSG0000	-	4.5496918	3.80E-04	0.0026143	KIF1C
0129250	0.9741244	5		5	
ENSG0000	-	7.3978775	3.80E-04	0.0026143	ROCK1
0067900	0.4148416	9		5	
ENSG0000	4.8214100	3.8827234	3.82E-04	0.0026270	KYNU
0115919	4	8		7	
ENSG0000	0.4834585	8.3415570	3.83E-04	0.0026320	USO1
0138768	1	8		7	
ENSG0000	0.5902493	5.1004692	3.84E-04	0.0026329	TM2D3
0184277	5	7		6	
ENSG0000	0.71127	7.1838265	3.85E-04	0.0026434	ANTXR2
0163297				6	
ENSG0000	-	5.1980289	3.87E-04	0.0026530	CDK4
0135446	1.1334794	1		3	
ENSG0000	-	3.9676865	3.88E-04	0.0026552	GMNN
0112312	0.9287301	9		4	
ENSG0000	-	7.7959425	3.88E-04	0.0026552	AHNAK2
0185567	1.2867768	6		4	
ENSG0000	-	5.0681937	3.90E-04	0.0026661	SLC25A46
0164209	0.5763554	3		4	
ENSG0000	-	5.7645348	3.90E-04	0.0026661	TSHZ1
0179981	1.1211536	1		4	
ENSG0000	-	4.6199583	3.91E-04	0.0026718	NME4
0103202	1.1215936	3		4	

ENSG0000	1.6826794	3.5849869	3.92E-04	0.0026755	LAMA1
0101680		2		5	
ENSG0000	0.3913189	6.3387127	3.92E-04	0.0026755	MIER1
0198160	5	5		5	
ENSG0000	-	3.4227302	3.94E-04	0.0026877	CEP83
0173588	1.1173528			7	
ENSG0000	0.8054860	4.8407272	3.96E-04	0.0026948	SIGIRR
0185187	2	6		3	
ENSG0000	-	5.2791489	3.97E-04	0.0027024	EBF1
0164330	0.8280132			2	
ENSG0000	-	7.2114252	3.97E-04	0.0027024	RXRA
0186350	0.6305096	6		2	
ENSG0000	-	3.1464962	3.99E-04	0.0027087	CENPF
0117724	2.8625289	4		5	
ENSG0000	0.6765059	8.466647	3.99E-04	0.0027087	UBB
0170315	6			5	
ENSG0000	-	6.3453988	4.00E-04	0.0027159	CALHM2
0138172	0.7375226	5		7	
ENSG0000	0.5034113	6.7010350	4.00E-04	0.0027159	URGCP
0106608	3	8		7	
ENSG0000	-	5.5929987	4.01E-04	0.0027208	MAP3K4
0085511	0.7542441	8		6	
ENSG0000	-	2.0042184	4.04E-04	0.0027389	NEK10
0163491	1.9644974	9		8	
ENSG0000	7.3846418	0.2733518	4.10E-04	0.0027737	TRPA1
0104321	2	9		9	
ENSG0000	0.6004477	6.7436471	4.11E-04	0.0027815	RSF1
0048649	2	2		4	
ENSG0000	0.7429044	8.2496269	4.13E-04	0.0027871	ATP2A2
0174437	8			5	
ENSG0000	-0.977781	2.1172036	4.14E-04	0.0027904	LIN7B
0104863					
ENSG0000	0.4435231	6.2863504	4.14E-04	0.0027904	KAT5
0172977	6	7			
ENSG0000	-0.587264	6.5754086	4.18E-04	0.0028149	PCMT1
0120265		7		7	
ENSG0000	-	8.3553201	4.18E-04	0.0028149	KCNMA1
0156113	1.2454438	4		7	
ENSG0000	4.2967079	0.4219278	4.18E-04	0.0028153	PHACTR1
0112137	6	6		6	
ENSG0000	0.6428939	5.6986074	4.19E-04	0.0028162	PPP1R16A
0160972	3	7		6	
ENSG0000	-	8.2865150	4.19E-04	0.0028162	SVIL
0197321	1.2372146	4		6	

ENSG0000	-	4.3769705	4.20E-04	0.0028188	MPHOSPH
0051825	1.1774373	1		4	9
ENSG0000	-3.306391	-0.102582	4.22E-04	0.0028297	EVI2A
0126860				8	
ENSG0000	-0.616206	4.1783919	4.22E-04	0.0028297	SETMAR
0170364		8		8	
ENSG0000	-	3.7508017	4.28E-04	0.0028702	BEND6
0151917	1.6414644	9		3	
ENSG0000	1.1658279	5.3306250	4.36E-04	0.0029191	TOM1
0100284		6		2	
ENSG0000	0.5844385	4.7460068	4.41E-04	0.0029518	NXT2
0101888	5	1		4	
ENSG0000	-	6.2741192	4.42E-04	0.0029518	ZBTB4
0174282	0.9649039	2		4	
ENSG0000	0.7281254	8.6061226	4.42E-04	0.0029518	TMEM59
0116209	7	2		4	
ENSG0000	-	3.3826625	4.43E-04	0.0029575	B4GALT6
0118276	1.3313001	9		9	
ENSG0000	0.8925173	4.3525385	4.45E-04	0.0029717	SEC11C
0166562	8	4		5	
ENSG0000	1.4267913	8.4363876	4.46E-04	0.0029740	ACSL4
0068366	8	8		1	
ENSG0000	-	4.2750888	4.48E-04	0.0029876	FBXO45
0174013	0.6257529	6		3	
ENSG0000	-0.743419	6.2100857	4.51E-04	0.0030061	MTMR2
0087053		3		8	
ENSG0000	-	5.3171092	4.53E-04	0.0030119	ACAP3
0131584	1.6529024	6			
ENSG0000	0.4305571	7.3174427	4.54E-04	0.0030183	PIP5K1A
0143398	1	7		3	
ENSG0000	1.1303462	5.7221030	4.58E-04	0.0030424	SEPTIN6
0125354	6	6		5	
ENSG0000	0.7919889	7.1933925	4.59E-04	0.0030484	SNX6
0129515	2	2		4	
ENSG0000	3.2383816	0.9623399	4.60E-04	0.0030500	IRAK3
0090376	8			7	
ENSG0000	-	2.7250726	4.60E-04	0.0030501	CYP2R1
0186104	1.2037601	7		6	
ENSG0000	-	4.7353595	4.60E-04	0.0030514	TSEN15
0198860	1.1155492	1		8	
ENSG0000	-	8.1491362	4.63E-04	0.0030687	EIF4G3
0075151	0.3860284	2		9	
ENSG0000	2.8814762	2.108959	4.70E-04	0.0031102	LYN
0254087	5			3	

ENSG0000	-	4.0766498	4.70E-04	0.0031102	TROAP
0135451	2.3924395	8		3	
ENSG0000	1.2247086	3.278226	4.72E-04	0.0031149	SLC43A2
0167703	1			7	
ENSG0000	0.6039268	5.9434505	4.72E-04	0.0031149	RUBCN
0145016	6	7		7	
ENSG0000	-1.019428	6.7877932	4.72E-04	0.0031149	LIMS2
0072163		6		7	
ENSG0000	0.7430191	11.744204	4.72E-04	0.0031149	CD44
0026508	5	9		7	
ENSG0000	0.368706	6.2906456	4.75E-04	0.0031302	TENT2
0164329				9	
ENSG0000	1.3961587	2.4226421	4.75E-04	0.0031305	UBE2Z
0159202	4			3	
ENSG0000	0.3684084	5.8137705	4.77E-04	0.0031346	PIP4P1
0165782	7	9		2	
ENSG0000	-	12.925273	4.77E-04	0.0031346	COL6A3
0163359	0.8805192	5		2	
ENSG0000	1.8386110	3.4324248	4.77E-04	0.0031347	TEP1
0129566	8	9		7	
ENSG0000	-	6.0164629	4.77E-04	0.0031347	PER3
0049246	1.3698395	5		7	
ENSG0000	-	7.0271872	4.78E-04	0.0031347	ANKRD11
0167522	0.4940492	6		7	
ENSG0000	-	1.8579031	4.79E-04	0.0031405	KANTR
0232593	1.4347566	5		2	
ENSG0000	-	6.2900597	4.79E-04	0.0031405	FNBP1
0187239	0.6308558			2	
ENSG0000	0.7499139	7.4750331	4.80E-04	0.0031405	CRELD2
0184164	9	7		2	
ENSG0000	1.2867294	5.68341	4.82E-04	0.0031516	GRAMD1B
0023171				4	
ENSG0000	0.5468597	5.8434097	4.82E-04	0.0031516	PISD
0241878	5	3		4	
ENSG0000	1.9227878	2.6577032	4.87E-04	0.0031791	AZIN2
0142920	1	3		1	
ENSG0000	0.6893613	7.0228525	4.87E-04	0.0031791	CD46
0117335	6	7		1	
ENSG0000	2.7473749	4.1783335	4.88E-04	0.0031862	ARHGAP28
0088756	9	6		1	
ENSG0000	0.4432007	5.6026800	4.91E-04	0.0032046	BCL10
0142867	2	9		5	
ENSG0000	-	7.3485776	4.92E-04	0.0032046	ZNF106
0103994	0.4619192	2		5	

ENSG0000	-	8.5789878	4.96E-04	0.0032329	SH3GL1
0141985	0.4372643	8		1	
ENSG0000	-2.90043	3.6637614	4.97E-04	0.0032351	TPD52L1
0111907		1		8	
ENSG0000	0.5879546	5.1939304	4.97E-04	0.0032351	RPS6KA3
0177189	9	9		8	
ENSG0000	-	2.5613331	4.99E-04	0.0032440	DENND5B
0170456	1.0808866	6		6	
ENSG0000	0.5519469	6.2191667	5.00E-04	0.0032478	ACOT9
0123130		9		2	
ENSG0000	1.5044589	4.2731679	5.01E-04	0.0032526	MAP3K8
0107968		9		1	
ENSG0000	0.5355929	4.3391769	5.03E-04	0.0032626	GEMIN7
0142252	5				
ENSG0000	2.8188703	1.2493897	5.09E-04	0.0032992	PTGIR
0160013	2			4	
ENSG0000	1.9955699	2.6592480	5.14E-04	0.0033287	ARID5A
0196843	3	4		6	
ENSG0000	-	5.0331217	5.17E-04	0.0033498	FAH
0103876	0.6440521	2		6	
ENSG0000	0.5435412	5.1160504	5.25E-04	0.0033971	DUSP22
0112679	1	9		7	
ENSG0000	0.9070541	4.6746343	5.27E-04	0.0034044	TMEM268
0157693	3	9		6	
ENSG0000	1.2469061	8.4135559	5.28E-04	0.0034093	LOXL3
0115318	1	6		5	
ENSG0000	1.1108136	4.6343289	5.29E-04	0.0034165	LARP4
0161813	5	8		6	
ENSG0000	1.1837348	3.1294358	5.31E-04	0.0034291	CDK17
0059758	3	6		1	
ENSG0000	-	4.4655778	5.34E-04	0.0034433	SMC1A
0072501	1.8799317	2		2	
ENSG0000	-	3.8871246	5.36E-04	0.0034520	EEF1AKMT
0203791	1.1694416	7		7	2
ENSG0000	0.7613110	6.1698129	5.37E-04	0.0034559	TJP1
0104067	9	5		4	
ENSG0000	1.0626920	7.0469380	5.37E-04	0.0034559	CALCOCO
0012822	2	2		4	1
ENSG0000	-	8.2845346	5.40E-04	0.0034722	SUN2
0100242	0.8716074	3		5	
ENSG0000	-	3.8367172	5.40E-04	0.0034723	PDE5A
0138735	3.3277943	8		6	
ENSG0000	-	6.9013631	5.42E-04	0.0034824	TOM1L2
0175662	0.6857233			4	

ENSG0000	-	3.4710774	5.45E-04	0.0034925	NT5DC2
0168268	2.1286632	9		2	
ENSG0000	-	3.7895735	5.45E-04	0.0034925	G2E3
0092140	1.5345495	9		2	
ENSG0000	-	6.7420115	5.44E-04	0.0034925	PHF20L1
0129292	0.3235394	7		2	
ENSG0000	0.5543777	6.0158767	5.47E-04	0.0035004	RBM7
0076053	1	8		4	
ENSG0000	1.1754007	7.3677916	5.48E-04	0.0035065	SLC43A3
0134802	6	9		5	
ENSG0000	-	5.6048328	5.49E-04	0.0035090	SLC9A6
0198689	0.4483225	8		1	
ENSG0000	-	3.9319606	5.50E-04	0.0035137	NFIA
0162599	0.9183789	3		4	
ENSG0000	-	3.3776053	5.57E-04	0.0035542	NOTCH3
0074181	3.7732778	9		1	
ENSG0000	3.1962101	3.5048161	5.56E-04	0.0035542	RELB
0104856	6	7		1	
ENSG0000	1.8665545	3.9408185	5.58E-04	0.0035605	ZNF385A
0161642	4	4		1	
ENSG0000	0.7261323	4.8518737	5.59E-04	0.0035617	MTMR14
0163719	7	5		4	
ENSG0000	-	6.0309675	5.69E-04	0.0036227	UBE4B
0130939	0.6577201			2	
ENSG0000	0.4725672	6.5749796	5.71E-04	0.0036361	VEZT
0028203	3	2		2	
ENSG0000	-0.749412	6.7069356	5.73E-04	0.0036421	THOP1
0172009		5		2	
ENSG0000	0.6282284	8.3055648	5.79E-04	0.0036828	FURIN
0140564	4	3		4	
ENSG0000	-	3.9187510	5.80E-04	0.0036855	ACTL6A
0136518	1.4788603	7		3	
ENSG0000	-2.85873	3.5754357	5.83E-04	0.0037038	ANK3
0151150		2		1	
ENSG0000	1.1328124	3.94625	5.84E-04	0.0037050	RBM17
0134453	6			8	
ENSG0000	-	2.4400533	5.85E-04	0.0037065	DNMT3B
0088305	1.3435657	1		1	
ENSG0000	-	3.3395979	5.85E-04	0.0037065	CCDC34
0109881	1.9989217	3		1	
ENSG0000	0.4503873	6.2876021	5.86E-04	0.0037083	GORASP1
0114745	6	6		5	
ENSG0000	-	3.7705171	5.90E-04	0.0037304	PIF1
0140451	1.8037949	8		6	

ENSG0000	-	4.1306739	5.92E-04	0.0037365	CAVIN3
0170955	0.7288912	6		8	
ENSG0000	-	6.0397676	5.92E-04	0.0037365	RPL26L1
0037241	0.5708027	5		8	
ENSG0000	0.9364004	6.5181598	5.92E-04	0.0037365	DOCK10
0135905		5		8	
ENSG0000	0.7467262	6.8151002	5.94E-04	0.0037458	ADAMTS2
0087116	5	4			
ENSG0000	1.0347285	4.6366973	5.96E-04	0.0037591	MICALL2
0164877	5	2		7	
ENSG0000	-	6.7648727	5.97E-04	0.0037623	MAN1A2
0198162	0.6872708	1		2	
ENSG0000	-0.489287	9.9400514	6.00E-04	0.0037765	RPL14
0188846		7		4	
ENSG0000	1.0276385	4.4398746	6.02E-04	0.0037891	STEAP1B
0105889	8	4		9	
ENSG0000	-	0.8893038	6.05E-04	0.0038001	NALCN
0102452	3.8340901	1		3	
ENSG0000	-	4.5317482	6.05E-04	0.0038001	HMMR
0072571	3.9367765	6		3	
ENSG0000	-	5.8572321	6.05E-04	0.0038001	MELK
0165304	1.5817475	2		3	
ENSG0000	-	3.8396226	6.07E-04	0.0038129	BRCA1
0012048	1.6722257	9		2	
ENSG0000	0.7646799	6.3263164	6.09E-04	0.0038206	SLC25A37
0147454	8	6		3	
ENSG0000	-	3.8366908	6.10E-04	0.0038216	CBX1
0108468	0.8441694	8		2	
ENSG0000	0.3893745	5.3978071	6.17E-04	0.0038675	ZFYVE27
0155256	4	5		4	
ENSG0000	0.8863612	6.3582744	6.18E-04	0.0038720	CCNL1
0163660	7	4		8	
ENSG0000	0.4568394	6.9194361	6.23E-04	0.0038992	TRIP10
0125733	3	5		6	
ENSG0000	-	8.1486987	6.24E-04	0.0038992	WNK1
0060237	0.6310333	2		6	
ENSG0000	4.0492586	1.0097283	6.26E-04	0.0039097	POM121L9
0128262	1	3		8	P
ENSG0000	-	4.2832755	6.26E-04	0.0039097	VIT
0205221	1.4490193	1		8	
ENSG0000	-	5.0322295	6.32E-04	0.0039456	RFLNB
0183688	1.6905545			7	
ENSG0000	-	3.3749714	6.33E-04	0.0039491	VDAC3
0078668	0.7663985	7		4	

ENSG0000	0.7602870	3.0351910	6.35E-04	0.0039608	SAP30L
0164576	6	3			
ENSG0000	4.8207480	0.6624776	6.38E-04	0.0039758	LAG3
0089692	8	7		8	
ENSG0000	-	6.5176640	6.39E-04	0.0039758	ARHGEF10
0104728	0.7167208	3		8	
ENSG0000	-0.433619	6.0771703	6.41E-04	0.0039873	NT5C3B
0141698		6		2	
ENSG0000	0.7931632	5.1392585	6.42E-04	0.0039913	NABP1
0173559	8				
ENSG0000	0.6089130	8.2835446	6.42E-04	0.0039913	SPAG9
0008294	1	4			
ENSG0000	1.6420480	2.6574640	6.44E-04	0.0039964	ELL2
0118985	9	5		9	
ENSG0000	1.3612100	3.9981571	6.46E-04	0.0040086	UBE2E1
0170142	6	3		8	
ENSG0000	-	3.7265351	6.52E-04	0.0040393	ZGRF1
0138658	1.7742343	6		7	
ENSG0000	-	4.3542589	6.52E-04	0.0040393	NGEF
0066248	2.3726758	2		7	
ENSG0000	1.1532506	7.0932775	6.55E-04	0.0040552	LDLR
0130164	1			6	
ENSG0000	-	3.4438126	6.56E-04	0.0040580	CCDC51
0164051	0.7636358			2	
ENSG0000	-	6.8999846	6.57E-04	0.0040609	TACC1
0147526	0.6439122	1		9	
ENSG0000	2.5820803	3.0923841	6.59E-04	0.0040713	CFAP69
0105792	2	8		2	
ENSG0000	0.6902573	2.6959013	6.59E-04	0.0040722	ZXDA
0198205	5	6		7	
ENSG0000	-	2.7391800	6.60E-04	0.0040725	MIF4GD
0125457	1.0019766	2			
ENSG0000	-	3.1122379	6.67E-04	0.0041099	BEND7
0165626	1.4827273	7		9	
ENSG0000	-	4.9286504	6.67E-04	0.0041099	AMDHD2
0162066	0.7452948	2		9	
ENSG0000	1.7793986	1.7313553	6.67E-04	0.0041110	TIFA
0145365	5	8		8	
ENSG0000	-	6.9034478	6.68E-04	0.0041132	ZNF146
0167635	0.4886452	7		9	
ENSG0000	0.3407525	5.5258619	6.70E-04	0.0041206	DERL2
0072849	6	8		9	
ENSG0000	0.6219068	3.6185010	6.71E-04	0.0041275	TANK
0136560	8	3		1	

ENSG0000	-	0.4815817	6.73E-04	0.0041355	PRADC1
0135617	2.6443664	9			
ENSG0000	0.7138736	4.4194827	6.94E-04	0.0042608	RAB24
0169228	9	9		7	
ENSG0000	1.0646298	3.5520728	6.96E-04	0.0042686	STARD5
0172345	3	3		4	
ENSG0000	1.2850051	1.5866122	6.96E-04	0.0042695	CHP1P2
0213073	3	4		6	
ENSG0000	-	2.2830864	6.99E-04	0.0042849	SPDL1
0040275	2.8650761	8			
ENSG0000	0.6291279	5.8195475	7.04E-04	0.0043094	MVB12A
0141971	4	2		4	
ENSG0000	1.0600532	4.8489367	7.04E-04	0.0043101	SIDT2
0149577	5	9		5	
ENSG0000	1.3060892	3.9150554	7.05E-04	0.0043146	SLCO3A1
0176463	1	8		5	
ENSG0000	0.6754952	6.4564620	7.07E-04	0.0043194	STING1
0184584	7	7		8	
ENSG0000	0.6416042	5.2905650	7.08E-04	0.0043233	SUPT4H1
0213246	6	7		6	
ENSG0000	-	2.8270813	7.09E-04	0.0043280	RPS6KA6
0072133	1.9825869	8		6	
ENSG0000	0.4634630	7.4566140	7.10E-04	0.0043307	NDUFS2
0158864	2	9		8	
ENSG0000	1.3787644	6.250697	7.12E-04	0.0043414	ERO1A
0197930	3			1	
ENSG0000	-	4.7281533	7.23E-04	0.0044073	SPA17
0064199	0.6897119	3		9	
ENSG0000	0.6214783	5.2062110	7.27E-04	0.0044284	ZNRF1
0186187	9	6		3	
ENSG0000	-	3.2163335	7.28E-04	0.0044328	WDR12
0138442	0.9580003	3		6	
ENSG0000	-	7.1502591	7.33E-04	0.0044567	LARS1
0133706	0.6280136			3	
ENSG0000	1.9967290	0.6268448	7.35E-04	0.0044651	SH3D21
0214193	4	5		7	
ENSG0000	2.0419348	4.2635195	7.36E-04	0.0044686	MT1L
0260549	3	1		1	
ENSG0000	1.1332537	5.0557368	7.37E-04	0.0044699	ARF3
0134287	2	2			
ENSG0000	0.5368839	6.6836267	7.37E-04	0.0044699	TSPYL2
0184205					
ENSG0000	1.5962556	8.1949299	7.39E-04	0.0044765	IFITM2
0185201	7	7			

ENSG0000	-	8.6068533	7.40E-04	0.0044789	RTN3
0133318	0.4237294	2		4	
ENSG0000	-	2.2052427	7.41E-04	0.0044838	CDK1
0170312	4.4426026	6		1	
ENSG0000	1.4765001	2.3421529	7.42E-04	0.0044901	VPS9D1
0075399	1	3		6	
ENSG0000	7.5976230	0.4231811	7.51E-04	0.0045338	RUNX3
0020633	7	9		3	
ENSG0000	0.4460799	6.8232055	7.51E-04	0.0045338	KDM2A
0173120	8	9		3	
ENSG0000	0.9571525	6.0269056	7.53E-04	0.0045431	BCAR1
0050820	6	9		1	
ENSG0000	-	9.8467300	7.57E-04	0.0045643	TXNRD1
0198431	1.0290499	7		5	
ENSG0000	-	2.5515831	7.58E-04	0.0045709	SLC25A51
0189332	0.8726404	9		9	P4
ENSG0000	-	5.7971484	7.60E-04	0.0045724	CEP63
0182923	0.5414558	6		4	
ENSG0000	-	5.9932807	7.60E-04	0.0045724	SLC41A3
0114544	0.6474734	8		4	
ENSG0000	-	6.1445372	7.60E-04	0.0045724	SAP130
0136715	0.5034591	4		4	
ENSG0000	1.7211180	3.4620645	7.64E-04	0.0045939	TWIST2
0233608	4	5		7	
ENSG0000	-	8.2345930	7.67E-04	0.0046070	SRP72
0174780	0.3428542	3		7	
ENSG0000	0.6070786	5.3362443	7.69E-04	0.0046168	NMT1
0136448	7	9			
ENSG0000	-	3.6198425	7.76E-04	0.0046515	TIMM9
0100575	1.2260649	7		8	
ENSG0000	1.2534181	4.9326170	7.76E-04	0.0046515	PFKL
0141959	3	1		8	
ENSG0000	-	6.8295818	7.76E-04	0.0046515	AAK1
0115977	0.5447648	9		8	
ENSG0000	0.6162753	4.9443216	7.79E-04	0.0046658	RNF38
0137075	7	3		7	
ENSG0000	-	7.6671492	7.82E-04	0.0046795	TCP1
0120438	0.6086276	3			
ENSG0000	-	3.5991176	7.82E-04	0.0046805	TSEN2
0154743	0.8595246	7		6	
ENSG0000	0.9071293	3.1419056	7.87E-04	0.0047069	IFI27L1
0165948	6	6		1	
ENSG0000	0.9315243	3.8495192	7.88E-04	0.0047071	DVL3
0161202	8	2		9	

ENSG0000	-0.481259	10.527864	7.92E-04	0.0047281	RACK1
0204628		5		6	
ENSG0000	1.5583912	3.0436616	8.00E-04	0.0047722	GYPC
0136732	7	7		8	
ENSG0000	-	4.1028110	8.01E-04	0.0047748	ZWINT
0122952	2.2248345	9		4	
ENSG0000	-	4.7193061	8.04E-04	0.0047864	RECQL4
0160957	1.9109359	4		2	
ENSG0000	-	7.6300130	8.05E-04	0.0047900	ITGA11
0137809	1.1756919	4		9	
ENSG0000	-	5.4730120	8.05E-04	0.0047921	UHRF2
0147854	0.5979765	5		4	
ENSG0000	-	10.033801	8.10E-04	0.0048168	EIF1
0173812	0.3484967	6		1	
ENSG0000	0.9267572	4.1806006	8.11E-04	0.0048192	NDST2
0166507	2	7		8	
ENSG0000	1.0988494	7.5540199	8.13E-04	0.0048274	LMO4
0143013	7			1	
ENSG0000	-	9.4743426	8.17E-04	0.0048462	RPL21
0122026	0.5753198	3			
ENSG0000	0.7928153	15.452921	8.19E-04	0.0048604	FN1
0115414	7	3		9	
ENSG0000	5.8909242	-	8.23E-04	0.0048768	IFITM1
0185885	6	1.4298944		3	
ENSG0000	0.3934542	7.6452532	8.26E-04	0.0048906	DNM1L
0087470	8			1	
ENSG0000	-	5.5843293	8.33E-04	0.0049324	SMARCD3
0082014	0.8156259	8		3	
ENSG0000	0.3131499	7.3780534	8.34E-04	0.0049334	AGFG1
0173744		9		5	
ENSG0000	-	6.8003621	8.36E-04	0.0049417	FCF1
0119616	0.3268087	3		5	
ENSG0000	0.3388088	7.4994645	8.40E-04	0.0049653	DCTN4
0132912	9			9	
ENSG0000	-	3.8734681	8.41E-04	0.0049673	BCAT2
0105552	1.2274355	8		7	
ENSG0000	4.5099924	2.7426564	8.42E-04	0.0049687	CD82
0085117	5			8	
ENSG0000	0.6091498	6.9394821	8.43E-04	0.0049716	ARHGEF40
0165801	5	2		8	
ENSG0000	0.3957528	7.3496670	8.43E-04	0.0049716	NADK
0008130	2	4		8	
ENSG0000	1.1967315	4.4365941	8.45E-04	0.0049778	STXBP1
0136854	6	1		3	

ENSG0000	0.4335758	7.3563658	8.46E-04	0.0049778	PTK2
0169398		2		3	
ENSG0000	-	3.2922526	8.48E-04	0.0049880	UBE2C
0175063	3.7668491	8		3	
ENSG0000	0.3307191	7.2504422	8.48E-04	0.0049880	CAMKK2
0110931		9		3	
ENSG0000	0.4992545	8.1397252	8.49E-04	0.004989	SH3GLB1
0097033	5	8			
ENSG0000	-	6.3352564	8.55E-04	0.0050231	CACYBP
0116161	0.6633985	6		8	
ENSG0000	2.7808463	1.4842446	8.63E-04	0.0050645	SOGA3
0214338	6	5		7	
ENSG0000	-	6.4925462	8.63E-04	0.0050645	ZFYVE21
0100711	0.5725034	3		7	
ENSG0000	1.4854480	2.6709902	8.64E-04	0.0050650	TMEM87B
0153214	4	6		1	
ENSG0000	-	5.2894946	8.66E-04	0.0050709	PIGU
0101464	0.5070102	1		9	
ENSG0000	0.7708365	3.4124300	8.66E-04	0.0050724	TMEM54
0121900		9			
ENSG0000	-	3.8461851	8.67E-04	0.0050724	STRAP
0023734	1.4419063	6			
ENSG0000	0.6333309	4.3555488	8.68E-04	0.0050743	SLX9
0160256	6	5			
ENSG0000	-	4.2786197	8.70E-04	0.0050828	SMAD5
0113658	1.1611076	3		6	
ENSG0000	0.3864292	7.9565333	8.77E-04	0.0051220	COMT
0093010	6	8		7	
ENSG0000	1.3145406	3.2135715	8.80E-04	0.0051355	PLSCR4
0114698	5			5	
ENSG0000	0.7626109	5.5335480	8.80E-04	0.0051355	CYBC1
0178927		4		5	
ENSG0000	0.7171694	11.83812	8.81E-04	0.0051368	LDHA
0134333	9			6	
ENSG0000	-	6.4389467	8.87E-04	0.0051685	FGF5
0138675	1.8144173	4		6	
ENSG0000	1.0206614	5.9718277	8.88E-04	0.0051719	HBP1
0105856	8	4		1	
ENSG0000	1.5650293	3.1922698	8.92E-04	0.0051884	ACER3
0078124	1	5		7	
ENSG0000	-	5.5289277	9.00E-04	0.0052326	SIRT2
0068903	0.5679572	1		5	
ENSG0000	0.7305990	5.4646092	9.09E-04	0.0052811	MAP4K3
0011566	6	6			

ENSG0000	-	5.3764834	9.10E-04	0.0052881	SCARF2
0244486	1.1883179	1		1	
ENSG0000	-	6.5831137	9.15E-04	0.0053096	GMPS
0163655	0.3987169	7		4	
ENSG0000	0.7895645	5.1371694	9.18E-04	0.0053249	CHKB
0100288	9	8		7	
ENSG0000	0.7195226	5.1696383	9.26E-04	0.0053628	DTWD1
0104047	9			7	
ENSG0000	-	7.2092443	9.25E-04	0.0053628	PSIP1
0164985	0.9791721	9		7	
ENSG0000	-	3.7977869	9.32E-04	0.0053985	PAFAH1B3
0079462	1.3264905	8		7	
ENSG0000	-	4.2752266	9.39E-04	0.0054371	SRPK2
0135250	0.6290315	4		1	
ENSG0000	-	4.8311174	9.43E-04	0.0054522	PPIP5K1
0168781	1.0099451	1		9	
ENSG0000	-	3.4061127	9.44E-04	0.0054582	XRCC3
0126215	1.8740424	8		7	
ENSG0000	-	3.8261034	9.45E-04	0.0054591	SIGMAR1
0147955	1.1302208	8		3	
ENSG0000	-	6.8704082	9.49E-04	0.0054780	CHD3
0170004	0.4787674	9		2	
ENSG0000	-	4.8450960	9.51E-04	0.0054857	TMCO3
0150403	0.8340624	7		1	
ENSG0000	2.8787021	3.8268299	9.52E-04	0.0054905	BDKRB1
0100739	4	9		9	
ENSG0000	0.9319532	4.2508004	9.57E-04	0.0055138	BAZ2B
0123636	7	3		3	
ENSG0000	-1.91987	3.5733538	9.59E-04	0.0055205	KNTC1
0184445		9		4	
ENSG0000	-	5.4850493	9.59E-04	0.0055205	PDCD4
0150593	0.7683292	1		4	
ENSG0000	-	6.1369440	9.64E-04	0.0055436	TCF3
0071564	0.5969714	6			
ENSG0000	-	8.8362383	9.70E-04	0.0055764	CALU
0128595	0.4441647	7		8	
ENSG0000	-2.237544	1.3650232	9.73E-04	0.0055926	CENPP
0188312		2		2	
ENSG0000	-	2.0204551	9.75E-04	0.0055987	NEK2
0117650	3.6137355	1		5	
ENSG0000	-	3.7702322	9.78E-04	0.0056110	ZFP1
0184517	1.0249866	2		7	
ENSG0000	-	3.5748974	9.82E-04	0.0056263	KIF22
0079616	1.1576464	9		3	

ENSG0000	0.5977472	5.3088207	9.81E-04	0.0056263	PSMB2
0126067	7	9		3	
ENSG0000	1.1910910	2.5984604	9.94E-04	0.0056921	NIPA1
0170113	1	6		3	
ENSG0000	0.3844403	6.1117683	9.97E-04	0.0057062	VAPB
0124164	6	2		1	
ENSG0000	1.3649735	10.424920	9.99E-04	0.0057176	IGFBP7
0163453	3	7		8	
ENSG0000	0.2862324	7.2907172	0.0010032	0.0057364	IST1
0182149		1	4	9	
ENSG0000	2.5191644	1.8311866	0.0010048	0.0057423	CPT1B
0205560	9	5	6	2	
ENSG0000	0.6234050	5.9437409	0.0010054	0.0057424	LMAN2
0169223	3	6	8	1	
ENSG0000	-	7.4427641	0.0010066	0.0057454	JDP2
0140044	0.4794702	1	2	8	
ENSG0000	0.9574510	3.2049011	0.0010113	0.0057639	WHAMMP3
0276141	4	1	4	9	
ENSG0000	-	6.1821546	0.0010116	0.0057639	MCUR1
0050393	0.5242338	7	7	9	
ENSG0000	0.3400517	7.8503893	0.0010107	0.0057639	RAB1A
0138069	9	3	1	9	
ENSG0000	1.4801487	4.2050872	0.0010158	0.0057841	ITPR1
0150995	1	2	2	8	
ENSG0000	-	2.2101169	0.0010196	0.0058026	CENPA
0115163	4.0492926	7	6		
ENSG0000	-	7.5691829	0.0010231	0.005819	IMMT
0132305	0.4060749	2	5		
ENSG0000	-0.470703	5.2624086	0.0010239	0.0058198	SOCS4
0180008		7			
ENSG0000	-	1.3618412	0.0010260	0.0058283	SLC25A10
0183048	2.9110961	8	1		
ENSG0000	0.4288361	6.0679652	0.0010266	0.0058287	AP3S1
0177879	9	1	9	1	
ENSG0000	0.4359907	6.1774359	0.0010273	0.0058288	CLK3
0179335	1	2	3	9	
ENSG0000	-0.69319	5.7252177	0.0010303	0.0058425	ELFN1
0225968			5	2	
ENSG0000	-	5.2761374	0.0010332	0.0058557	BRCA2
0139618	1.1216519	9	9	4	
ENSG0000	0.9367340	3.7063547	0.0010364	0.0058703	SLC6A9
0196517	3		8	3	
ENSG0000	-	3.8887021	0.0010396	0.0058814	SLC47A1
0142494	1.2385204	4	8	1	

ENSG0000	1.0709847	3.4352261	0.0010402	0.0058814	NHLRC3
0188811		8	9	1	
ENSG0000	-	7.3874581	0.0010397	0.0058814	MEF2A
0068305	0.7404821	3	2	1	
ENSG0000	-3.209662	2.6573127	0.0010443	0.0058973	SGO1
0129810		6	4	6	
ENSG0000	-	7.2739156	0.0010439	0.0058973	UBTF
0108312	0.3845859	9	8	6	
ENSG0000	-1.082064	3.4607788	0.0010458	0.0059024	TTLL5
0119685			7	7	
ENSG0000	1.6696272	2.5037331	0.0010479	0.0059070	PDK3
0067992	5	2	1	1	
ENSG0000	0.4137040	5.1779543	0.0010473	0.0059070	KDM4C
0107077	5	3	4	1	
ENSG0000	0.3936993	8.8160021	0.0010490	0.0059100	NCOA4
0266412	8	9	6	1	
ENSG0000	-	3.4696425	0.0010536	0.0059325	EBPL
0123179	0.8187232	7	8	7	
ENSG0000	-	4.5934429	0.0010565	0.0059451	NDUFB6
0165264	0.6111075	9	3		
ENSG0000	0.4318535	5.2019964	0.0010579	0.0059497	IFT43
0119650	6	1	8	1	
ENSG0000	0.4545812	7.8944000	0.0010603	0.0059593	ATP2C1
0017260	2	2	2	9	
ENSG0000	7.1019112	0.5695576	0.0010705	0.0060134	C2
0166278	8	2	7	6	
ENSG0000	-	6.8198408	0.0010767	0.0060447	GIT1
0108262	0.3918803	4	7	4	
ENSG0000	-	4.8677451	0.0010955	0.0061445	PEA15
0162734	1.5980502		6	3	
ENSG0000	-	5.2336548	0.0010958	0.0061445	OGG1
0114026	0.4234346	7	4	3	
ENSG0000	-	4.7091414	0.0011056	0.0061922	FIGNL1
0132436	1.1820993	2	4	4	
ENSG0000	0.4947537	5.2626912	0.0011051	0.0061922	TBC1D22A
0054611	3	5	5	4	
ENSG0000	-	3.0385517	0.0011074	0.0061986	ARHGAP23
0275832	1.1074323	9	4	7	
ENSG0000	-	8.8256075	0.0011107	0.0062135	NCOR2
0196498	0.6292934	8	4	1	
ENSG0000	0.5015220	6.8091289	0.0011168	0.0062442	USP9X
0124486	2	2	8	2	
ENSG0000	0.5581931	8.4080869	0.0011207	0.0062624	GPR176
0166073	5		9	1	

ENSG0000	-	4.6926897	0.0011226	0.0062688	WDHD1
0198554	1.3160992	8		5	
ENSG0000	-	4.6207559	0.0011251	0.0062791	SHANK2
0162105	1.6287491	5		2	
ENSG0000	-	4.2882113	0.0011269	0.0062859	RABL6
0196642	0.7281919	1	8	3	
ENSG0000	-	5.6867008	0.0011307	0.0063030	HMCE5
0183624	0.4970548	5	1	7	
ENSG0000	-0.979056	3.2718697	0.0011327	0.0063106	DNAJB1
0132002		6	4	7	
ENSG0000	-	4.5982606	0.0011344	0.0063165	DNM1
0106976	2.5746208		5	4	
ENSG0000	1.1323942	2.4124075	0.0011367	0.0063222	RSC1A1
0215695	9	9	8	9	
ENSG0000	-	5.6550694	0.0011368	0.0063222	NHSL1
0135540	1.2512276	4	1	9	
ENSG0000	-	3.6688097	0.0011435	0.0063521	TMEM168
0146802	0.8150309	9	1	8	
ENSG0000	-	5.3982784	0.0011433	0.0063521	CLASP2
0163539	0.9809302	4	6	8	
ENSG0000	-	5.8316482	0.0011455	0.0063597	MEMO1
0162959	0.5373788	4	4	6	
ENSG0000	0.5987776	5.0955303	0.0011471	0.0063649	AK2
0004455	1	9	7		
ENSG0000	0.5143981	6.7006871	0.0011478	0.0063649	DPP3
0254986	9	8			
ENSG0000	0.5812773	4.7089489	0.0011574	0.0064110	GSTO1
0148834	6	6	7	4	
ENSG0000	0.4828858	5.6480872	0.0011600	0.0064217	CCDC91
0123106	5	9	7	4	
ENSG0000	0.6284491	6.5557789	0.0011640	0.0064402	ZPR1
0109917	9	7	8		
ENSG0000	1.5724912	4.2400008	0.0011661	0.0064478	KCNJ15
0157551	2	4	4	5	
ENSG0000	-	5.5018346	0.0011713	0.0064728	ELP1
0070061	0.6127381	7	4	6	
ENSG0000	-	5.5757192	0.0011732	0.0064798	PRMT7
0132600	0.4985688	9	9	9	
ENSG0000	8.9809600	-	0.0011748	0.0064820	CD38
0004468	8	0.0710744	3	6	
ENSG0000	-	3.8217295	0.0011750	0.0064820	STX10
0104915	0.7275496	1	4	6	
ENSG0000	0.8144380	4.6850286	0.0011765	0.0064855	SEC61G
0132432	1	2	6	8	

ENSG0000	-	7.0941988	0.0011770	0.0064855	BICD2
0185963	0.4868577	4	4	8	
ENSG0000	-	3.1605906	0.0011787	0.0064876	XRCC2
0196584	1.8355626	3		2	
ENSG0000	2.1746817	2.5002392	0.0011787	0.0064876	PCDH12
0113555	2	6	6	2	
ENSG0000	0.5518653	4.2991753	0.0011837	0.0065114	C18orf21
0141428	5	5	7	2	
ENSG0000	0.8370484	3.2435747	0.0011917	0.0065495	ZNF600
0189190	3	6		4	
ENSG0000	-	4.0314995	0.0011920	0.0065495	RPS29
0213741	0.8805699	7	7	4	
ENSG0000	0.8001865	2.9205099	0.0011973	0.0065711	INTS6L
0165359	2		7		
ENSG0000	0.8302539	3.4353524	0.0011967	0.0065711	NT5C
0125458	6	8	1		
ENSG0000	0.7755518	5.5788186	0.0012042	0.0066050	ARSA
0100299	3		5	6	
ENSG0000	0.4078331	6.7866783	0.0012054	0.0066077	RAB12
0206418	6	8	4	5	
ENSG0000	4.2431325	-	0.0012069	0.0066086	PILRA
0085514	6	0.0570468	8	4	
ENSG0000	-	8.8857599	0.0012065	0.0066086	RPL35A
0182899	0.3407131	3	4	4	
ENSG0000	-	7.1916711	0.0012100	0.0066214	IDH1
0138413	0.6977508	4	2	9	
ENSG0000	-	3.7743526	0.0012109	0.0066228	INSYN1
0205363	1.3975709	3	5		
ENSG0000	1.4110323	6.6503185	0.0012152	0.0066425	UHMK1
0152332	3	3	5	1	
ENSG0000	-	4.4327229	0.0012189	0.0066590	FNBP1L
0137942	1.0664605	1	8	4	
ENSG0000	-	5.1148033	0.0012242	0.0066837	BCCIP
0107949	0.4715914	4		7	
ENSG0000	-	4.1356543	0.0012281	0.0066996	CCNE2
0175305	1.2812552	2	9	3	
ENSG0000	0.5849947	6.6944113	0.0012285	0.0066996	SEC62
0008952	8	6	1	3	
ENSG0000	-	4.9252634	0.0012304	0.0067065	OSR2
0164920	0.8985529	5	8	6	
ENSG0000	-	4.6871094	0.001234	0.0067218	TEDC1
0185347	1.2207644			9	
ENSG0000	-0.787056	3.7295902	0.0012347	0.0067223	MRPL48
0175581		4	9	3	

ENSG0000	-	4.9446801	0.0012363	0.0067267	RAD51D
0185379	0.8330745	5		5	
ENSG0000	-0.445221	7.0886085	0.0012478	0.0067856	FZR1
0105325		2	3	3	
ENSG0000	2.1524335	2.9527034	0.0012501	0.0067941	FMNL1
0184922	3	4	1	3	
ENSG0000	-	4.7546225	0.0012530	0.0068061	COPS6
0168090	1.1989448	7	4	9	
ENSG0000	0.5669972	5.107187	0.0012538	0.0068066	WDR54
0005448	1		5	9	
ENSG0000	-	3.8944139	0.0012595	0.0068338	MTFMT
0103707	0.6197986	3	6	3	
ENSG0000	1.1896243	2.6176422	0.0012603	0.0068341	ZNF525
0203326	7	5	3	4	
ENSG0000	4.4179494	3.6805355	0.0012626	0.0068426	IFI30
0216490	5	9	1	3	
ENSG0000	-	10.959119	0.0012640	0.0068465	RTN4
0115310	0.5164637	4	6	7	
ENSG0000	2.3138385	0.5927408	0.0012665	0.0068558	RHBDL2
0158315	2	4		9	
ENSG0000	-	4.7107568	0.0012681	0.0068611	SESN1
0080546	0.8791024		9	6	
ENSG0000	1.0315580	5.2830956	0.0012692	0.0068629	ACBD5
0107897	3	1	4	3	
ENSG0000	-	9.7033073	0.0012707	0.0068669	RPS23
0186468	0.4418379	6		8	
ENSG0000	0.9966970	3.2538072	0.0012854	0.0069385	AKT3
0117020	2	2	1	8	
ENSG0000	-	4.9232328	0.0012847	0.0069385	FAM214A
0047346	0.7052276		9	8	
ENSG0000	-0.625359	6.9139234	0.0012867	0.0069421	IFRD2
0214706		8	9	2	
ENSG0000	-	6.4978784	0.0012970	0.0069937	CENPT
0102901	0.6650573	6	8		
ENSG0000	-	4.6838061	0.0013043	0.0070288	FANCC
0158169	1.0615704	3	4	5	
ENSG0000	1.1046525	4.2617323	0.0013062	0.0070353	CRELD1
0163703	5	2	8	4	
ENSG0000	0.4401490	4.6125869	0.0013073	0.007037	C3orf14
0114405	9	2	2		
ENSG0000	6.2525654	2.2044840	0.0013134	0.0070659	CFB
0243649	9	6	4	3	
ENSG0000	-0.7429	3.0330075	0.0013173	0.0070828	GRK4
0125388		7	3	6	

ENSG0000	-	7.1253887	0.0013185	0.0070854	PAK4
0130669	0.5381557	1	5	2	
ENSG0000	-	2.9140029	0.0013207	0.0070929	TMEM19
0139291	1.1237432	5	4	3	
ENSG0000	0.4467732	5.9461159	0.0013214	0.0070929	STAMBP
0124356	3	6	3	3	
ENSG0000	1.8414772	8.6923407	0.0013279	0.0071236	NDUFA4L2
0185633	2	7		6	
ENSG0000	-	2.1284075	0.0013424	0.0071941	ERF
0105722	1.3303293	5	2	2	
ENSG0000	1.4808423	4.6364829	0.0013425	0.0071941	PLAAT3
0176485		2	4	2	
ENSG0000	0.5170567	3.9721391	0.0013537	0.0072500	PABIR3
0156500	8	3	4	6	
ENSG0000	0.6084204	6.4298755	0.0013610	0.0072848	TXNDC15
0113621	9	3	3	6	
ENSG0000	-	8.7951841	0.0013617	0.0072848	SEPTIN7
0122545	0.3433836	8	6	6	
ENSG0000	-	5.4675768	0.0013628	0.0072868	STIL
0123473	1.1832789	5	9	2	
ENSG0000	-	3.5136494	0.0013670	0.0073050	QDPR
0151552	1.5335147	7	7	8	
ENSG0000	-	4.1429037	0.0013681	0.0073065	ENDOV
0173818	0.7261961	9	1	3	
ENSG0000	-	7.68434	0.0013770	0.0073501	RANBP1
0099901	0.6986377		4		
ENSG0000	-	5.2246443	0.0013789	0.0073559	ARMCX6
0198960	0.6307336		1	7	
ENSG0000	-	7.4928414	0.0013917	0.0074202	SLC38A2
0134294	0.8698692	8	3	3	
ENSG0000	1.0578839	3.8788481	0.0013933	0.0074245	RNF31
0092098	6	3	2	4	
ENSG0000	-	5.9897929	0.0013948	0.0074283	RPL7L1
0146223	0.5181369	3	2	9	
ENSG0000	0.5258026	7.7792975	0.0014011	0.0074580	BIRC2
0110330	1	9	7	5	
ENSG0000	2.2335379	4.9042284	0.0014038	0.0074680	ERAP1
0164307	4	2	3	9	
ENSG0000	1.5606520	5.4170782	0.0014078	0.0074850	FAS
0026103	8	8		2	
ENSG0000	-	2.5483338	0.0014101	0.0074935	FAM131B
0159784	1.5476319	7	9	6	
ENSG0000	0.7949361	3.1087305	0.0014155	0.0075178	TVP23C
0175106		4	4	2	

ENSG0000	2.1690219	4.5187001	0.0014227	0.0075517	H2AC6
0180573	9	1	3	9	
ENSG0000	-	5.3311972	0.0014256	0.0075629	SMAD6
0137834	0.9380241	2	2	4	
ENSG0000	-	4.3487489	0.0014298	0.0075810	UBE2T
0077152	2.7748205	3	3	5	
ENSG0000	0.4341863	7.0340981	0.0014357	0.0076080	GYG1
0163754			2	6	
ENSG0000	0.4463880	6.4846534	0.0014414	0.0076298	KHNYN
0100441	5	2	3	5	
ENSG0000	-	4.8393190	0.0014480	0.0076604	BTBD3
0132640	0.7646832	4	1	1	
ENSG0000	0.5923630	3.5885698	0.0014500	0.0076671	TNFSF13
0161955	1		9	6	
ENSG0000	-	10.531887	0.0014596	0.0077134	HDLBP
0115677	0.5522602	7	5	4	
ENSG0000	-	5.0068290	0.0014623	0.0077232	MALSU1
0156928	0.3945235	2	1	2	
ENSG0000	-	4.5855376	0.0014683	0.0077509	WDR76
0092470	1.4685198	3	6		
ENSG0000	-0.650958	3.6993586	0.0014701	0.0077560	COX7C
0127184		2	5	7	
ENSG0000	1.9985394	3.8667655	0.0014759	0.0077779	DPP4
0197635	9	6	3	6	
ENSG0000	-	3.4688987	0.0014803	0.0077968	ZNF184
0096654	0.7172338	2	3	2	
ENSG0000	0.3891253	7.1509288	0.0014811	0.0077969	PEX19
0162735	3	6	6	1	
ENSG0000	-	5.1291832	0.0014874	0.0078257	PYCR2
0143811	0.5886641	6	6	7	
ENSG0000	-	5.0468640	0.0014982	0.0078783	PAN2
0135473	1.0473919	5	8	3	
ENSG0000	-	2.9743418	0.0015043	0.0079058	TMEM116
0198270	1.4625348	9	4	6	
ENSG0000	0.5762556	4.6830714	0.0015134	0.0079495	SLC38A9
0177058	7	1	9	9	
ENSG0000	-	6.2199176	0.0015175	0.0079662	ATPAF1
0123472	0.2799703	6		4	
ENSG0000	-	6.1090886	0.0015331	0.0080376	MCM5
0100297	1.7034657	9	2	3	
ENSG0000	0.4986532	6.8630828	0.0015329	0.0080376	CELF1
0149187	5	8	4	3	
ENSG0000	-	7.2669683	0.0015336	0.0080376	WIPF1
0115935	0.5065247	3	2	3	

ENSG0000	-2.978579	1.5018173	0.0015348	0.0080393	SIGLEC15
0197046		8		7	
ENSG0000	-	4.9509094	0.0015434	0.0080800	SLF2
0119906	0.8820395	5	1	6	
ENSG0000	11.600637	2.0698272	0.0015481	0.0081002	CCL7
0108688	9	7	1	2	
ENSG0000	0.5847417	4.2355451	0.0015561	0.0081338	SDHA
0073578	1	5	9	7	
ENSG0000	0.8779144	7.1516496	0.0015562	0.0081338	SMIM3
0256235	1	3	4	7	
ENSG0000	-	4.4038166	0.0015576	0.0081365	TMEM201
0188807	0.7166198	6		2	
ENSG0000	-	6.1419665	0.0015784	0.0082407	COPG2
0158623	0.5163809	1	1		
ENSG0000	-	8.0003937	0.0015839	0.0082603	POLR2E
0099817	0.3181147	3	1	7	
ENSG0000	0.4650745	8.4319257	0.0015838	0.0082603	OS9
0135506	8	3	2	7	
ENSG0000	-0.608109	5.2653775	0.0015884	0.0082794	CDAN1
0140326		6	4	8	
ENSG0000	-	3.6167686	0.0015905	0.008286	LRR1
0165501	0.9475949	4	6		
ENSG0000	-	1.9986124	0.0015918	0.0082884	MAMSTR
0176909	2.0063706	3	9		
ENSG0000	-1.256021	3.5234283	0.0016027	0.0083402	DPH5
0117543		2	8	7	
ENSG0000	-	7.4028693	0.0016036	0.0083402	SCRIB
0180900	0.7776602	3		7	
ENSG0000	0.5303734	6.389064	0.0016049	0.0083424	SLC35A5
0138459	9			9	
ENSG0000	-	1.5754654	0.0016233	0.0084335	PXMP4
0101417	2.1741723	3		8	
ENSG0000	0.9211690	7.9581986	0.0016254	0.0084399	ATP2B1
0070961	1	2			
ENSG0000	-	2.3000923	0.0016294	0.0084516	AGAP11
0261011	1.5558648	3	3	3	
ENSG0000	0.8756530	4.0852807	0.0016286	0.0084516	TRIM52
0183718	4	9	7	3	
ENSG0000	-2.631372	2.1127440	0.0016365	0.0084839	SPAG5
0076382		4	5	6	
ENSG0000	-	6.4679489	0.0016379	0.0084867	MAPK1
0100030	0.5184444	8	7		
ENSG0000	-	5.3729514	0.0016414	0.0084998	RCOR3
0117625	0.3709744	3		6	

ENSG0000	-	4.2889386	0.0016439	0.0085083	ANO6
0177119	1.0491283	9	3	2	
ENSG0000	-	3.4484004	0.0016480	0.0085251	DEXI
0182108	0.9997108		6	1	
ENSG0000	-	6.5351662	0.0016597	0.0085806	NAA10
0102030	0.4622376	3	1	8	
ENSG0000	-	4.5199804	0.0016665	0.0086116	SKA2
0182628	0.7750724	5	9		
ENSG0000	-	1.2747700	0.0016781	0.0086572	CRACR2B
0177685	3.7196276	8	4	7	
ENSG0000	0.5723824	4.3598351	0.0016780	0.0086572	ZNF140
0196387	1	5	1	7	
ENSG0000	0.4700155	7.1364832	0.0016772	0.0086572	ST6GALNA
0160408	4	2	5	7	C6
ENSG0000	0.8656567	3.5176174	0.0016820	0.0086728	HSCB
0100209	2	2	8	9	
ENSG0000	-	6.4807829	0.0016836	0.0086763	NOP56
0101361	0.8488593	5	5	2	
ENSG0000	-0.614494	3.4701586	0.0016899	0.0086993	WTIP
0142279			5	8	
ENSG0000	-	4.1149075	0.0016898	0.0086993	TMEM8B
0137103	1.1809318	3	4	8	
ENSG0000	-	7.2964198	0.0016924	0.0087027	GLT8D1
0016864	0.3544261		3	4	
ENSG0000	0.5780394	7.8212712	0.0016916	0.0087027	MKNK2
0099875	1	1	7	4	
ENSG0000	-	7.7820582	0.0016936	0.0087045	PABPN1
0100836	0.3357514	9	8		
ENSG0000	-1.850409	2.1602017	0.0016964	0.0087140	BCL2
0171791		5	5	5	
ENSG0000	0.3610168	5.9424424	0.0016977	0.0087161	LRRC42
0116212	1		6		
ENSG0000	-	3.9764939	0.0017018	0.0087291	MRPL33
0243147	0.6542947	5	3		
ENSG0000	-	6.9758685	0.0017021	0.0087291	DUT
0128951	0.6596447	5	2		
ENSG0000	0.5864111	6.3416204	0.0017152	0.0087917	DOCK9
0088387	5	5	7	8	
ENSG0000	0.7902650	9.6343951	0.0017171	0.0087968	MYL12A
0101608	4	6	7	1	
ENSG0000	-	4.1931348	0.0017185	0.0087991	CINP
0100865	0.7728966	3	4		
ENSG0000	0.8259697	5.5887279	0.0017211	0.0088028	PCMTD1
0168300	1	6	1	2	

ENSG0000	0.6617276	6.0117786	0.0017204	0.0088028	JKAMP
0050130	4	1	8	2	
ENSG0000	-	4.8279814	0.0017486	0.0089390	CAB39L
0102547	1.5073398	8	7	2	
ENSG0000	-	3.5646476	0.001764	0.0090125	NSUN5P2
0106133	0.7372272			2	
ENSG0000	-	11.554578	0.0017676	0.0090226	CCDC80
0091986	0.7027814	3	7		
ENSG0000	0.7603632	6.7467458	0.0017678	0.0090226	NBPF19
0271383	9	2	6		
ENSG0000	-	4.3477397	0.0017748	0.0090532	PYGO1
0171016	0.6558258	2	1	4	
ENSG0000	0.4830064	6.2214651	0.0017764	0.0090569	SETD1B
0139718	6	4	9	8	
ENSG0000	1.3083325	4.8143120	0.0017839	0.0090900	EVA1C
0166979	5	2	2	1	
ENSG0000	-	5.4361070	0.0017897	0.0091145	COX20
0203667	0.7417219	4		9	
ENSG0000	-	3.2132576	0.0017930	0.0091265	ALKBH2
0189046	0.7646129	6	1	7	
ENSG0000	-	4.7460539	0.0017974	0.0091396	COPZ2
0005243	0.7476272	6	9	5	
ENSG0000	0.3159022	5.7300778	0.0017968	0.0091396	MRPL40
0185608	8	8	7	5	
ENSG0000	-	3.3068851	0.0018025	0.0091605	FAM86EP
0251669	0.9162794	5	5	1	
ENSG0000	-	3.3298767	0.0018065	0.0091758	CACNB3
0167535	1.0385796	2	4	6	
ENSG0000	0.5722662	6.9625894	0.0018141	0.0092097	SPART
0133104	8	1	8	7	
ENSG0000	0.7743110	6.6543958	0.0018184	0.0092264	UGGT1
0136731	3	3	3	6	
ENSG0000	2.8832528	0.5456467	0.0018248	0.0092493	C2orf27A
0287151	2	9	7	1	
ENSG0000	-	6.2136569	0.0018240	0.0092493	MAD1L1
0002822	0.7011778	5	9	1	
ENSG0000	1.2745875	4.9834374	0.0018259	0.0092496	FHOD3
0134775	5	8		2	
ENSG0000	-	4.1040919	0.0018375	0.0093038	MITF
0187098	0.9158039	6	8	6	
ENSG0000	1.6010514	3.2347933	0.0018436	0.0093247	CLDN7
0181885	9	5	5	1	
ENSG0000	-	7.4695944	0.0018435	0.0093247	RAPGEF1
0107263	0.4004885	7		1	

ENSG0000	-	3.9689277	0.0018528	0.0093661	CCDC74B
0152076	1.4092402	6	2		
ENSG0000	-	5.5398808	0.0018590	0.0093926	TRAPPC2L
0167515	0.4755399		6	6	
ENSG0000	-	3.2417525	0.0018706	0.0094387	UBN1
0118900	0.8486321	5	7	4	
ENSG0000	-	3.7805761	0.0018711	0.0094387	HROB
0125319	0.9572915	9	4	4	
ENSG0000	-	6.4634625	0.0018708	0.0094387	CLOCK
0134852	0.8345065	7	2	4	
ENSG0000	-	6.2177375	0.0018749	0.0094527	PSMG1
0183527	0.5361505	5		2	
ENSG0000	0.8211887	4.7464417	0.0018764	0.0094556	SMCHD1
0101596	6	9	8	9	
ENSG0000	7.2394194	1.3379316	0.0018826	0.0094819	CXCL8
0169429	6	7	8	2	
ENSG0000	5.6520715	0.2666617	0.0018855	0.0094915	RRAD
0166592	9	7	9	5	
ENSG0000	3.7917581	4.0919096	0.0018875	0.0094965	HK2
0159399	2	6	8	9	
ENSG0000	-	4.6362442	0.0018912	0.0095100	STAG3L3
0174353	0.5349661	8	5	1	
ENSG0000	0.9103106	4.1749883	0.0019016	0.0095571	CSNK1A1
0113712	7	5	2	5	
ENSG0000	-	1.9851925	0.0019119	0.0096038	INPP5E
0148384	1.0990843	9	2	3	
ENSG0000	-	6.6624927	0.0019131	0.0096047	FLRT2
0185070	1.0747429	6	1	8	
ENSG0000	2.1020415	1.3974007	0.0019231	0.0096434	ICOSLG
0160223		8	8	9	
ENSG0000	0.8453534	5.3396960	0.0019223	0.0096434	MBD5
0204406	3	3	3	9	
ENSG0000	0.4746959	7.5204972	0.0019238	0.0096434	DNAJB11
0090520	4	1	5	9	
ENSG0000	-1.419485	2.4511100	0.0019251	0.0096447	ZNF826P
0231205		5	1	5	
ENSG0000	-	7.7940891	0.0019335	0.0096821	TGFB2
0163513	0.4735128	6	9	7	
ENSG0000	0.6889902	9.0706331	0.0019407	0.0097128	HK1
0156515	2	3	4	4	
ENSG0000	1.0931719	2.8627843	0.0019450	0.0097292	USPL1
0132952	4	6	3	5	
ENSG0000	-	7.6960685	0.0019489	0.0097434	HNRNPR
0125944	0.6555047	3		8	

ENSG0000	-	4.6445373	0.0019696	0.0098419	RMI1
0178966	0.8989154	3	2		
ENSG0000	1.0278880	9.8595568	0.0019755	0.0098664	ADAM12
0148848	6	1	7	6	
ENSG0000	0.7473604	6.2928123	0.0019920	0.0099437	VLDLR
0147852	5	8	9	8	
ENSG0000	0.4398476	5.0516873	0.0020000	0.0099785	REL
0162924	2	8	9		
ENSG0000	0.6518499	3.4888065	0.0020091	0.0100183	HDHD3
0119431	1	2	3	9	
ENSG0000	1.5177173	2.7653262	0.0020107	0.0100209	ARHGAP42
0165895	6	1		6	
ENSG0000	0.3502437	6.3307503	0.0020173	0.0100489	MSL1
0188895	4		6		
ENSG0000	-	3.2179303	0.0020467	0.0101898	C21orf58
0160298	2.1278945	6	3	8	
ENSG0000	0.7191597	4.6461944	0.0020515	0.0102031	ANKLE2
0176915	4	2	2	2	
ENSG0000	-	5.5358828	0.0020656	0.0102677	RPL23AP8
0184319	0.5032398	1		8	2
ENSG0000	-	3.8759645	0.0020807	0.0103377	PABPC1L
0101104	0.8133271	2	5	3	
ENSG0000	0.6039699	3.6694471	0.0020868	0.0103623	PPP4R1L
0124224	7	7		7	
ENSG0000	1.1567646	2.2182715	0.0020941	0.0103919	TMEM63A
0196187	2	6	4	4	
ENSG0000	1.6411654	3.8827962	0.0020960	0.0103919	ARHGEF3
0163947	3	1	2	4	
ENSG0000	-	6.6483959	0.0020957	0.0103919	UHRF1
0276043	1.4944791	7	1	4	
ENSG0000	-	3.2880077	0.0020977	0.0103949	PKMYT1
0127564	2.4260311	1	2	9	
ENSG0000	-	5.0124059	0.0021034	0.0104180	CPSF4
0160917	0.4318857	4	7	8	
ENSG0000	0.6548807	7.3604876	0.0021120	0.0104552	TMBIM6
0139644	6	2	6		
ENSG0000	-	2.5281774	0.0021139	0.0104592	FAM86C2P
0160172	1.2761863	3	8	9	
ENSG0000	-	4.2123268	0.0021214	0.0104906	TDP1
0042088	0.9392118	4	1	1	
ENSG0000	-0.409947	4.7972240	0.0021231	0.0104935	MON1A
0164077		5			
ENSG0000	-	6.0309567	0.0021315	0.0105297	TAOK2
0149930	0.5313512	2	4	8	

ENSG0000	-	4.7046058	0.0021332	0.0105328	ADAM33
0149451	1.1843809	2	6	4	
ENSG0000	-	3.5403868	0.0021367	0.0105336	ERG
0157554	3.1125523	3	4	5	
ENSG0000	-	4.6408487	0.0021363	0.0105336	UBXN11
0158062	0.7065875	5		5	
ENSG0000	0.6516409	5.1801456	0.0021351	0.0105336	PAQR7
0182749	9	9	6	5	
ENSG0000	0.4020033	7.4759272	0.0021399	0.0105439	SELENOF
0183291	3	6	3	7	
ENSG0000	1.3713015	3.4183862	0.0021532	0.0106038	MFSD6
0151690	2	5		7	
ENSG0000	-	1.9137555	0.0021569	0.0106170	CYS1
0205795	2.0361977	6	9	5	
ENSG0000	-	7.4248982	0.0021663	0.0106577	SNHG32
0204387	0.7172953		8	9	
ENSG0000	-2.48326	2.3348190	0.0021738	0.0106780	FGFR3
0068078		3	5	1	
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0067064	0.4837845	5		1	
ENSG0000	-	9.7343898	0.0021732	0.0106780	HMGA1
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ENSG0000	4.7475965	0.4975744	0.0021839	0.0107218	ADAMTS4
0158859	6	2		8	
ENSG0000	-	0.7758401	0.0021951	0.0107717	ALG14
0172339	1.5972673	9	9	9	
ENSG0000	0.5831204	4.6962688	0.0021978	0.0107792	TPRA1
0163870	3	9	5	7	
ENSG0000	-	4.7746983	0.0021990	0.0107795	ZFAND2B
0158552	0.7504571	2	3	3	
ENSG0000	-	1.6425727	0.0022192	0.0108728	AEN
0181026	1.7284173	9	1	8	
ENSG0000	1.8264287	3.9607046	0.0022255	0.0108984	LIMD2
0136490	8	9	8	8	
ENSG0000	-	2.7760590	0.0022352	0.0109400	SUZ12P1
0264538	0.7911776	8	2	9	
ENSG0000	0.8557657	4.9063946	0.0022369	0.0109431	A4GALT
0128274	8	4	8	2	
ENSG0000	-	2.6525975	0.0022769	0.0111277	CENPU
0151725	2.8605662			1	
ENSG0000	1.0918365	2.0598667	0.0022777	0.0111277	HYAL3
0186792	3	8	9	1	
ENSG0000	-	3.7063723	0.0022782	0.0111277	NCAPH2
0025770	1.1136228	1	2	1	

ENSG0000	1.0067525	3.354747	0.0022878	0.0111690	TMEM50B
0142188	8		5	7	
ENSG0000	-	9.350033	0.0022938	0.0111924	RPL18
0063177	0.3910198		1	3	
ENSG0000	0.6373274	5.7972959	0.0022959	0.0111971	FAM219A
0164970	1	6	6	8	
ENSG0000	-	7.7302546	0.0023045	0.0112331	RPS4X
0198034	0.7737017	1			
ENSG0000	-	5.6952731	0.0023076	0.0112426	GJC1
0182963	0.8754621	1	3	3	
ENSG0000	-	2.7173675	0.0023105	0.0112509	ZNF738
0172687	0.9984889	1	2	7	
ENSG0000	-	5.3055834	0.0023148	0.0112665	SGCD
0170624	1.6485484	7	9	2	
ENSG0000	-	6.0250936	0.0023290	0.0113297	UBE2S
0108106	1.3576355	2	6		
ENSG0000	0.6724379	7.1102919	0.0023372	0.0113638	CBLB
0114423	4	3	8	7	
ENSG0000	1.9166778	1.2331670	0.0023433	0.0113858	KCNQ3
0184156		2	8	1	
ENSG0000	1.310455	5.2944786	0.0023441	0.0113858	RTTN
0176225		5	7	1	
ENSG0000	1.0798346	3.8610772	0.0023590	0.0114522	DECR1
0104325	6	7	6	9	
ENSG0000	0.2634850	6.2473068	0.0023763	0.0115302	GGCX
0115486	1	9	3	9	
ENSG0000	3.0075343	1.1399617	0.0023781	0.0115334	TRIB1
0173334	2	1	9	2	
ENSG0000	-	3.0548634	0.0023813	0.0115431	AMZ2P1
0214174	1.2213929	8	9	1	
ENSG0000	0.6041210	5.8367016	0.0023912	0.0115818	KDM4B
0127663	7	4	8	3	
ENSG0000	0.3325386	7.2214028	0.0023918	0.0115818	USP11
0102226	4	4	1	3	
ENSG0000	1.1851933	4.1130335	0.0024018	0.0116185	HARS1
0170445	1	9	2	5	
ENSG0000	-0.378499	7.957589	0.002401	0.0116185	QARS1
0172053				5	
ENSG0000	-	2.2116858	0.0024251	0.0116964	HINT2
0137133	1.2658852	6	1	3	
ENSG0000	-	4.3102580	0.0024218	0.0116964	RAD51
0051180	1.4769575	6	3	3	
ENSG0000	-	5.3405268	0.0024265	0.0116964	TNFRSF19
0127863	1.2291311	3		3	

ENSG0000	1.9051011	5.0566351	0.0024259	0.0116964	TNFRSF11
0164761		3	8	3	B
ENSG0000	-	4.9697872	0.0024247	0.0116964	PAQR3
0163291	0.4212126	1	7	3	
ENSG0000	0.4362363	7.1973967	0.0024238	0.0116964	ADH5
0197894	3	2	4	3	
ENSG0000	0.2546500	8.0196546	0.0024203	0.0116964	CSNK1D
0141551	5	1	8	3	
ENSG0000	2.2021836	4.3910268	0.0024306	0.0117105	REEP5
0129625	6	6	5	3	
ENSG0000	0.2701610	8.0329221	0.0024363	0.0117321	ZNF207
0010244	3	4	7	6	
ENSG0000	0.3312805	5.8549155	0.0024442	0.0117639	MRPS18A
0096080	8	6		2	
ENSG0000	-	5.5054492	0.0024548	0.0118091	GLIS2
0126603	0.9646202	5	3	6	
ENSG0000	-0.689574	4.5321001	0.0024576	0.0118167	DOCK5
0147459		2	4	3	
ENSG0000	-	7.7813047	0.0024604	0.0118244	ATP5MC3
0154518	0.3190865		8	4	
ENSG0000	-	6.2841279	0.0024637	0.0118339	SLC10A3
0126903	0.3303038	3		3	
ENSG0000	1.7164838	2.4690616	0.0024757	0.0118858	H4C14
0270882	3	1	5	5	
ENSG0000	0.392448	5.1658545	0.0024877	0.0119372	MOB2
0182208			1	4	
ENSG0000	0.7700022	2.8619732	0.0024892	0.0119385	LIPT1
0144182	3	2	3	5	
ENSG0000	-	2.2243932	0.0025102	0.0120331	OSGEPL1
0128694	1.0760412	7	2	6	
ENSG0000	-	3.2455539	0.0025288	0.0121066	C14orf93
0100802	0.7664263	3	6	3	
ENSG0000	0.9275782	3.8942117	0.0025276	0.0121066	TRPM4
0130529	3	6		3	
ENSG0000	0.4336089	7.4727049	0.0025293	0.0121066	BIRC6
0115760	7	6	5	3	
ENSG0000	-	3.0093035	0.0025319	0.0121129	TSPAN10
0182612	0.9879354	4	3	4	
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0168779	3	1	1	7	
ENSG0000	-1.45831	2.0490268	0.0025512	0.0121928	GLDC
0178445		6		9	
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0111639	0.5328734	2	5	2	

ENSG0000	-	0.9186675	0.0025910	0.0123708	CCDC121
0176714	1.5541217	1	2	2	
ENSG0000	0.8463110	3.8298602	0.0026026	0.0124203	CTF1
0150281	6	5	9	5	
ENSG0000	0.6546782	2.9389259	0.0026136	0.0124664	CCNJ
0107443		7	5	3	
ENSG0000	-	9.1478612	0.0026163	0.0124731	HNRNPL
0104824	0.4316264	4	7	5	
ENSG0000	-	6.7418422	0.0026197	0.0124830	PELP1
0141456	0.5931343	6	5	3	
ENSG0000	-	4.3227967	0.0026240	0.0124974	ZNF778
0170100	0.7967051	7	9	8	
ENSG0000	0.8543194	3.9221262	0.0026377	0.0125555	GOLT1B
0111711	9		9		
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0165322	7				
ENSG0000	0.7814570	8.9628610	0.0026581	0.0126408	P4HA2
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ENSG0000	1.0036624	2.8408264	0.0026650	0.0126672	AGPAT2
0169692	4	9	4	4	
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0130270	1.5688449	2	7	7	
ENSG0000	2.1154118	5.1511042	0.0026718	0.0126869	ASS1
0130707		8	4	4	
ENSG0000	0.6688595	5.6230464	0.0026818	0.0127280	HCFC1
0172534	2	4	3	3	
ENSG0000	0.6563512	5.5898888	0.0026895	0.0127582	DDX41
0183258	1	7	3	2	
ENSG0000	0.9024920	5.5867889	0.0026922	0.0127646	SPRY4
0187678	7	4	2	5	
ENSG0000	-	4.2296408	0.0026994	0.0127927	ZNF605
0196458	0.8902322		9	9	
ENSG0000	-	2.9432205	0.0027208	0.0128869	ARRB2
0141480	1.1977959	2	6	8	
ENSG0000	0.5070619	5.6127939	0.0027220	0.0128869	DNAAF9
0088854	7		7	8	
ENSG0000	-	1.0586684	0.0027366	0.0129494	MOSPD1
0101928	1.3708984	9	3	7	
ENSG0000	-	2.9306633	0.0027462	0.0129883	CDC20
0117399	5.3146234	2	1	9	
ENSG0000	-	5.3769864	0.0027485	0.0129928	METTL5
0138382	0.3675291	3	1	4	
ENSG0000	0.3937403	7.2224396	0.0027536	0.0130106	UBXN1
0162191	4	9	5	9	

ENSG0000	0.9950511	4.5174576	0.0027559	0.0130153	SYNGR2
0108639	3	5	9		
ENSG0000	1.6286477	1.6593414	0.0027666	0.0130592	SLC7A7
0155465	4	8	6	5	
ENSG0000	-	1.5675661	0.0027715	0.0130660	LIPE
0079435	2.2452198	1	9	8	
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0183647	1.4891043	9	9	8	
ENSG0000	1.0619142	2.4548105	0.0027741	0.0130660	TRADD
0102871	9	5	7	8	
ENSG0000	0.5747631	4.1655156	0.0027730	0.0130660	GXYLT1
0151233	5	2	4	8	
ENSG0000	1.3321787	4.6926662	0.0027749	0.0130660	DERL1
0136986	9	4	5	8	
ENSG0000	-	6.9735501	0.0027852	0.0131079	SEC22C
0093183	0.3361765	1	2	8	
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0258289	5		5	5	
ENSG0000	-	6.4220269	0.0027884	0.0131103	MTCL1
0168502	0.8119622	3	7	6	
ENSG0000	0.5433421	4.8929904	0.0028006	0.0131610	POLI
0101751	4	7	3	2	
ENSG0000	-	1.8567619	0.0028149	0.0132215	NR2C2AP
0184162	1.5544393	7		9	
ENSG0000	-	5.0405609	0.0028195	0.0132371	ATP6V0E2
0171130	1.4276481	8	9		
ENSG0000	0.5785527	5.7281636	0.0028309	0.0132837	IQSEC2
0124313	6	8	1	3	
ENSG0000	0.6814594	3.8051102	0.0028340	0.0132919	PSMB4
0159377	7	7	6	8	
ENSG0000	0.5684429	7.9843730	0.0028384	0.0133060	TMEM50A
0183726	7	1	5	3	
ENSG0000	-	3.7821201	0.0028411	0.0133119	SUV39H2
0152455	1.4998912	2	1	4	
ENSG0000	0.5545063	4.5223112	0.0028477	0.0133366	RCHY1
0163743	5	9	7		
ENSG0000	-	3.0745443	0.0028499	0.0133400	KCTD9
0104756	0.8032221		1	9	
ENSG0000	-	5.1528510	0.0028526	0.0133462	RBM42
0126254	0.5454572	7	3	6	
ENSG0000	2.3331492	3.0575534	0.0028542	0.0133471	ERAP2
0164308	9	2	1	3	
ENSG0000	-	3.0019463	0.002881	0.0134658	SKA3
0165480	4.0683869	8		4	

ENSG0000	-	6.4653801	0.0028871	0.0134877	USP36
0055483	0.4509937	9		5	
ENSG0000	-	3.0492335	0.0029006	0.0135409	CPEB1
0214575	2.9484819	6	7		
ENSG0000	0.5938112	5.8708831	0.0029013	0.0135409	C1orf122
0197982	4	7	2		
ENSG0000	-	3.7721321	0.0029196	0.0136166	SPIN1
0106723	0.9286155	4	3	6	
ENSG0000	-	5.6662560	0.0029217	0.0136166	KAT6B
0156650	0.4251428	8	7	6	
ENSG0000	-	7.4688904	0.0029218	0.0136166	VCL
0035403	0.6311611	6	3	6	
ENSG0000	-0.858847	4.0509935	0.0029277	0.0136375	TK2
0166548		5	5	8	
ENSG0000	-	3.2679278	0.0029324	0.0136404	DKK1
0107984	2.0674798	6	3	3	
ENSG0000	-0.645446	4.0901579	0.0029326	0.0136404	EXO5
0164002		5	4	3	
ENSG0000	-	5.0531219	0.0029312	0.0136404	MRRF
0148187	0.4046538	4	3	3	
ENSG0000	7.9032182	0.1207288	0.0029426	0.0136802	PCLO
0186472	6		3	4	
ENSG0000	-	2.4543979	0.0029512	0.0137138	TEDC2
0162062	1.9696278	3	9	1	
ENSG0000	-	7.3606940	0.0029530	0.0137154	EPHX1
0143819	1.1170373	2	7	1	
ENSG0000	-3.696358	2.7334663	0.0029657	0.0137675	ESPL1
0135476		2	4	3	
ENSG0000	0.6189059	4.1185770	0.0029790	0.0138224	SIX5
0177045	4	1	2	8	
ENSG0000	-	3.3786744	0.0029913	0.0138729	SEPTIN7P2
0214765	1.1022645	8	4	2	
ENSG0000	0.4189876	8.2974108	0.0030034	0.0139222	NBR1
0188554	8	9	5	8	
ENSG0000	3.6216587	0.6645213	0.0030168	0.0139777	RAB8B
0166128	8	3	7	1	
ENSG0000	-	5.2535610	0.0030231	0.0139998	RPP30
0148688	0.4423925	3	1	4	
ENSG0000	-	7.8062973	0.0030264	0.0140083	HSPH1
0120694	0.3522903	2	1	5	
ENSG0000	-	9.4103395	0.0030390	0.0140599	XRCC6
0196419	0.3247374	8	4	9	
ENSG0000	0.8439028	5.2067814	0.0030413	0.0140639	KDM6B
0132510	9		7	2	

ENSG0000	-	3.3054057	0.0030544	0.0141177	NDUFAF6
0156170	0.5866988		8	3	
ENSG0000	0.7561599	2.6664742	0.0030566	0.0141207	CYB5R4
0065615	9	9	1	4	
ENSG0000	3.4205212	1.7413160	0.0030629	0.0141429	GPRC5B
0167191	7	7	1	9	
ENSG0000	-	5.4050597	0.0030886	0.0142547	DPY19L3
0178904	0.8068428	1		2	
ENSG0000	0.2298498	7.5511035	0.0031010	0.0143051	LRRC41
0132128	2		3	9	
ENSG0000	0.4603753	5.0656485	0.0031098	0.0143389	ATG12
0145782	7	1	6	8	
ENSG0000	-	6.2931170	0.0031143	0.0143528	RNF41
0181852	0.4645782	2	6	2	
ENSG0000	0.6681049	6.0926593	0.0031233	0.0143870	ATG7
0197548	4	9		7	
ENSG0000	-	6.0535709	0.0031292	0.0144073	CRTC3
0140577	0.2349676	5		1	
ENSG0000	-	3.8600451	0.0031348	0.0144261	ANKMY1
0144504	0.7465804	8		2	
ENSG0000	0.4840945	4.5738266	0.0031520	0.0144984	ZNF205
0122386	1	9	3	3	
ENSG0000	0.4456016	4.8826660	0.0031554	0.0145003	GRPEL1
0109519	3	2	9	9	
ENSG0000	0.3958242	6.2159171	0.0031549	0.0145003	ITSN2
0198399	3	6	6	9	
ENSG0000	0.3682973	5.2202965	0.0031762	0.0145885	PATZ1
0100105	4			4	
ENSG0000	-	4.2877598	0.0031969	0.0146722	MED4
0136146	0.4705687	3	2	5	
ENSG0000	0.4036645	5.3984466	0.0031975	0.0146722	USP6NL
0148429	9	1		5	
ENSG0000	-1.330226	5.0291594	0.0032091	0.0147186	PSMC3IP
0131470		3	5	1	
ENSG0000	-	4.8765936	0.0032372	0.0148401	LDB2
0169744	1.7242458			4	
ENSG0000	0.4129429	5.5713318	0.0032428	0.0148587	LRSAM1
0148356		9	2	8	
ENSG0000	-2.225146	2.8587985	0.0032459	0.0148658	EXO1
0174371		5	2	6	
ENSG0000	-	9.6450513	0.0032520	0.0148868	RPS27A
0143947	0.3532734	4	7	6	
ENSG0000	-	5.4067039	0.0032799	0.0150073	NF2
0186575	1.2057224	9	6	4	

ENSG0000	0.8518927	5.1168462	0.0032961	0.0150742	MCL1
0143384	1	5	7	7	
ENSG0000	0.9728225	3.1127374	0.0033033	0.0150997	EIF4E3
0163412	6	5	1		
ENSG0000	-0.624164	9.9752344	0.0033056	0.0151032	RPS17
0182774		9	7	7	
ENSG0000	-	0.9712959	0.0033090	0.0151114	OSR1
0143867	3.0669369	7	4	5	
ENSG0000	-	9.8010125	0.0033119	0.0151175	SLC1A5
0105281	0.9405511	2	6	3	
ENSG0000	-	4.3463928	0.0033194	0.0151374	WDR27
0184465	0.6910443	4	9	3	
ENSG0000	0.4162266	5.7770681	0.0033188	0.0151374	SRI
0075142	8	7	9	3	
ENSG0000	-	6.6259092	0.0033241	0.0151442	SRSF6
0124193	0.3525793	6	6	9	
ENSG0000	0.3434948	7.4500371	0.0033232	0.0151442	KEAP1
0079999	9	2		9	
ENSG0000	-	3.7120071	0.0033280	0.0151547	ACAT2
0120437	0.8333033	9	4	1	
ENSG0000	-	4.9789031	0.0033368	0.0151877	GULP1
0144366	0.9921713	5	9	8	
ENSG0000	0.9731017	3.9105125	0.0033525	0.0152518	MTMR11
0014914	3	4	7	7	
ENSG0000	1.7516497	2.7059273	0.0033578	0.0152684	TSKU
0182704	4	5			
ENSG0000	1.3985665	2.7158830	0.0033639	0.0152891	ARHGAP20
0137727	8	1	7	5	
ENSG0000	-	3.3512832	0.0033656	0.0152893	ZFPL1
0162300	0.7094963	2	2	7	
ENSG0000	-	4.8191168	0.0033697	0.0152934	POLR1B
0125630	0.7894756	3	2	8	
ENSG0000	0.5659686	6.2394788	0.0033683	0.0152934	TIAM2
0146426	6	2	8	8	
ENSG0000	-	3.2452123	0.0033768	0.0153114	SLC35G1
0176273	0.9198509	9	9	3	
ENSG0000	0.7989087	4.213197	0.0033764	0.0153114	TSPO
0100300	2			3	
ENSG0000	-	3.3557666	0.0033810	0.0153228	ASPM
0066279	3.7098402	1	2	9	
ENSG0000	0.6159163	5.9430075	0.0033984	0.0153946	HEBP2
0051620	8	1	6	2	
ENSG0000	-	4.9099129	0.0034003	0.0153957	USP46
0109189	0.5512615		2	4	

ENSG0000	-	6.0187267	0.0034028	0.0154000	RAB23
0112210	0.7296989	4	7	1	
ENSG0000	-	5.6465303	0.0034256	0.0154958	SBNO1
0139697	0.3764948	2	7	5	
ENSG0000	-0.520001	5.4425459	0.0034301	0.0155088	ATE1
0107669		1	8	9	
ENSG0000	-3.269921	2.3017675	0.0034429	0.0155552	E2F8
0129173		3	7	1	
ENSG0000	-	3.6302210	0.0034446	0.0155552	PRR7
0131188	0.5776837	3	1	1	
ENSG0000	-0.664886	5.6601343	0.0034453	0.0155552	EI24
0149547		5	1	1	
ENSG0000	6.5984873	0.3080470	0.0034504	0.0155711	CCL20
0115009	3	2	7	3	
ENSG0000	-	4.1718102	0.0034732	0.0156665	SIPA1L2
0116991	1.4983779	6	5	4	
ENSG0000	2.3614792	0.4495518	0.0034805	0.0156921	ARID3A
0116017	8	9	8	8	
ENSG0000	-	7.7595959	0.0034960	0.0157543	FARP1
0152767	0.7613227	8	1	3	
ENSG0000	2.1962240	6.2240683	0.0035169	0.0158411	COL7A1
0114270	3	2	4	6	
ENSG0000	-	6.4908933	0.0035325	0.0159038	GTPBP6
0178605	0.3787204	9	2	5	
ENSG0000	0.5268935	5.0110032	0.0035365	0.0159145	CCNG2
0138764	7	1	7	6	
ENSG0000	0.5888003	4.0514448	0.0035419	0.0159313	RIT1
0143622	8	6	6		
ENSG0000	-	9.4531458	0.0035628	0.0160179	RPL31
0071082	0.3600293		9	1	
ENSG0000	0.3702897	6.2564709	0.0035688	0.0160373	ZDHHC6
0023041	5	1	8		
ENSG0000	-	4.4633402	0.0035733	0.0160496	CSPP1
0104218	0.4641192	6	1	5	
ENSG0000	0.8239016	4.3084036	0.0036285	0.0162898	CASP7
0165806	1			5	
ENSG0000	-	4.4596031	0.0036318	0.0162974	UROS
0188690	0.5359494	3	9	3	
ENSG0000	-	2.8883901	0.0036410	0.0163232	DZIP3
0198919	1.1769267	4	6	5	
ENSG0000	0.7993860	2.9217717	0.0036404	0.0163232	PAIP2
0120727	5	6	3	5	
ENSG0000	1.3790343	1.7375612	0.0036441	0.0163294	TENT4B
0121274	7	5	7	9	

ENSG0000	0.8877974	5.7187743	0.0036482	0.0163400	MEIS3
0105419	8		3	4	
ENSG0000	1.8671788	1.3330358	0.0036653	0.0163973	H4C8
0158406	9	5	2	4	
ENSG0000	1.3880812	2.5195862	0.0036651	0.0163973	SERPINB1
0021355	4	6	9	4	
ENSG0000	-0.772679	3.4527609	0.0036678	0.0163973	CGREF1
0138028			9	4	
ENSG0000	0.2309618	6.2169567	0.0036674	0.0163973	STARD3NL
0010270	2	2	9	4	
ENSG0000	5.0543141	-	0.0036776	0.0164333	CARD16
0204397	7	0.0270144	6	1	
ENSG0000	-0.738195	7.1363332	0.0036968	0.0165110	MCM7
0166508		3		9	
ENSG0000	-	4.2066268	0.0037002	0.0165186	SRPRB
0144867	0.5465403	5	3	8	
ENSG0000	0.3555263	5.5787846	0.0037100	0.0165548	NIT2
0114021	5		6	3	
ENSG0000	0.7235888	5.7908568	0.0037167	0.0165770	KLF9
0119138	2	8	6	1	
ENSG0000	-	6.6935470	0.0037856	0.0168623	C14orf132
0227051	0.8686924	7	1	4	
ENSG0000	-	6.9816357	0.0037860	0.0168623	PPT1
0131238	0.3404242	5	4	4	
ENSG0000	-	6.0700416	0.0038003	0.0169180	DPM2
0136908	0.4043155		2	8	
ENSG0000	-	7.9255516	0.0038069	0.0169396	ADIRF
0148671	0.8407582	1	5	8	
ENSG0000	-	3.6802682	0.0038479	0.0171140	CHERP
0085872	1.3203593	9	4	9	
ENSG0000	-	5.8435337	0.0038630	0.0171733	MAN2A2
0196547	0.5450598	4	5	1	
ENSG0000	-	1.5425194	0.0038706	0.0171918	MPP7
0150054	1.7576494	8	5	8	
ENSG0000	-	7.8412201	0.0038708	0.0171918	DCTD
0129187	0.3246529	7	3	8	
ENSG0000	0.5648607	5.9100701	0.0039013	0.0173191	BAG1
0107262	9	9		4	
ENSG0000	-	2.4530785	0.0039245	0.0174060	DPY19L2P
0170629	1.0851854	7	1	3	2
ENSG0000	1.6051318	5.1636908	0.0039272	0.0174102	JAGN1
0171135	3	1	9	7	
ENSG0000	0.4813718	3.8737770	0.0039309	0.0174185	MYL5
0215375	8	8	9	6	

ENSG0000	3.0174266	0.7759925	0.0039393	0.0174394	TAPBP
0231925		9	6	7	
ENSG0000	1.4182129	5.2751498	0.0039393	0.0174394	CHST11
0171310	3	4	3	7	
ENSG0000	-	2.1238882	0.0039453	0.0174577	TLR6
0174130	1.7412231	2	2	8	
ENSG0000	-0.660128	4.3228594	0.0039537	0.0174868	ZFP62
0196670		9	3	8	
ENSG0000	-	1.4689603	0.0039642	0.0175173	PACSIN2
0100266	2.7309992	1	8	3	
ENSG0000	-	4.9203765	0.0039633	0.0175173	SAE1
0142230	1.0785956	7	6	3	
ENSG0000	-	2.1640297	0.0039777	0.0175686	FDXR
0161513	1.9182716	5	5	9	
ENSG0000	3.0965171	5.1425844	0.0039813	0.0175731	SERPINA1
0197249	8	5	5	9	
ENSG0000	1.2090315	4.0331279	0.0039824	0.0175731	IL1R1
0115594	4	5	5	9	
ENSG0000	-	5.2792413	0.0039867	0.0175838	MTO1
0135297	0.5774356	5		2	
ENSG0000	0.7162558	4.5678496	0.0040034	0.0176493	ASB1
0065802	4	8	1	6	
ENSG0000	-	6.4449801	0.0040205	0.0177083	LSP1
0130592	2.5817293	3		9	
ENSG0000	0.5094264	6.4214772	0.0040195	0.0177083	SKIL
0136603	8	1	8	9	
ENSG0000	-	3.1844975	0.0040242	0.0177145	MYBL2
0101057	2.6362853	5	4	5	
ENSG0000	-	5.9011541	0.0040256	0.0177145	MLST8
0167965	0.3523018	4	1	5	
ENSG0000	-	3.7735680	0.0040279	0.0177166	FXN
0165060	0.5249208	7	4	3	
ENSG0000	0.4370636	5.5008495	0.0040323	0.0177198	DDA1
0130311	8	7	9	7	
ENSG0000	-	7.1284928	0.0040319	0.0177198	PPP6R3
0110075	0.3146696	6	2	7	
ENSG0000	0.8065126	4.8365035	0.0040355	0.0177254	TMED7-
0251201	2	3			TICAM2
ENSG0000	-	3.2287474	0.0040409	0.0177413	C18orf54
0166845	1.6764844	4	9	5	
ENSG0000	1.6579349	3.8164979	0.0040489	0.0177682	SLC2A6
0160326	3	6	7	1	
ENSG0000	-	6.8723746	0.0040795	0.0178942	PSMC5
0087191	0.4446708	7	8	9	

ENSG0000	-	4.4188258	0.0040910	0.0179281	C1orf109
0116922	0.6855759	7	5	3	
ENSG0000	0.4867757	5.2981954	0.0040909	0.0179281	RBM19
0122965	8	7	8	3	
ENSG0000	1.1772830	2.0316372	0.0040980	0.0179504	RORA
0069667	3	5	3	8	
ENSG0000	1.0393679	4.3864507	0.0041038	0.0179626	SLC9B2
0164038	2	4		3	
ENSG0000	0.6645014	4.9467921	0.0041045	0.0179626	TVP23B
0171928	8	8	6	3	
ENSG0000	-	2.9854353	0.0041088	0.0179707	NOL10
0115761	1.0355098	3	2	7	
ENSG0000	-	4.3944564	0.0041101	0.0179707	LIG1
0105486	1.2791554	3	9	7	
ENSG0000	1.2489324	7.6894188	0.0041149	0.0179831	ETS1
0134954	8	4	1	8	
ENSG0000	0.5065669	7.6682138	0.0041196	0.0179958	PCYT1A
0161217	4		8	2	
ENSG0000	-1.089674	4.4558189	0.0041398	0.0180754	CEP131
0141577			1	6	
ENSG0000	-	4.3521813	0.0041450	0.0180829	ZNF398
0197024	0.4159978		2		
ENSG0000	0.4782546	7.4951122	0.0041453	0.0180829	ZEB2
0169554	5	3			
ENSG0000	-1.87882	2.4769259	0.0041496	0.0180935	IL17D
0172458			2		
ENSG0000	-	4.6450610	0.0041571	0.0181181	DDX39A
0123136	0.8708467	8	7	3	
ENSG0000	-	1.9927415	0.0041727	0.0181690	ZNF521
0198795	2.6287588	5	8	1	
ENSG0000	-	4.2905613	0.0041740	0.0181690	ADGRB2
0121753	1.5688951	2	1	1	
ENSG0000	2.6871902	5.0727441	0.0041745	0.0181690	CCDC71L
0253276	6	7	5	1	
ENSG0000	-	3.4916114	0.0041767	0.0181704	NME1-
0011052	1.2403143	2	9	7	NME2
ENSG0000	-	2.4914156	0.0041787	0.0181708	PCDHGA6
0253731	0.8892718	9	9	9	
ENSG0000	-	6.9569119	0.0041873	0.0181997	ANAPC13
0129055	0.2889864	7	4	9	
ENSG0000	0.8858549	4.5937854	0.0041926	0.0182145	TUT7
0083223	5	9	5	7	
ENSG0000	-	7.7227332	0.0042310	0.0183728	CAPG
0042493	0.7956489	1	1	7	

ENSG0000	-	6.0375504	0.0042340	0.0183778	GPATCH4
0160818	0.4885469	3	9	7	
ENSG0000	1.3970928	3.4678698	0.0042497	0.0184292	OLFML1
0183801	7	4	9	6	
ENSG0000	0.6833121	4.0321435	0.0042482	0.0184292	FAM135A
0082269	1	1	1	6	
ENSG0000	-4.650922	1.3986178	0.0042719	0.0185009	KIF2C
0142945		1	4	1	
ENSG0000	0.6315302	5.9076784	0.0042684	0.0185009	VMP1
0062716	4	3	6	1	
ENSG0000	-	7.0467339	0.0042721	0.0185009	OPA1
0198836	0.4908423	6	2	1	
ENSG0000	0.6970023	5.9241310	0.0042747	0.0185037	ACOT2
0119673		4	1	3	
ENSG0000	0.3753077	6.1369965	0.0042882	0.0185452	ARL1
0120805	4	8		9	
ENSG0000	-	6.5068554	0.0042862	0.0185452	PPP1R7
0115685	0.4094449	4	8	9	
ENSG0000	-	2.1045908	0.0043241	0.0186924	TICRR
0140534	1.9606547	7	7		
ENSG0000	1.2289296	2.4814082	0.0043334	0.0187241	MRPL32
0106591	4	7	6		
ENSG0000	-	4.7191846	0.0043378	0.0187346	NLGN1
0169760	2.3459449	1	6	2	
ENSG0000	0.8218238	2.6246750	0.0043465	0.0187553	EEF1AKMT
0123427	2	4	9	3	3
ENSG0000	-	4.1887654	0.0043462	0.0187553	SMAGP
0170545	1.1062144	9	1	3	
ENSG0000	-	6.6532258	0.0043494	0.0187591	ORAI2
0160991	0.5847442	2	4	6	
ENSG0000	1.6270666	3.1205055	0.0043541	0.0187635	MCUB
0005059	4	7	6	1	
ENSG0000	0.6956299	4.5761268	0.0043543	0.0187635	PHF23
0040633	2	5	8	1	
ENSG0000	3.6128358	2.8985294	0.0043625	0.0187902	PRKD1
0184304	8	9	4		
ENSG0000	0.3061546	5.5886213	0.0043694	0.0188115	CNOT4
0080802	7	6	7	9	
ENSG0000	-	1.8479831	0.0043757	0.0188302	ARHGEF39
0137135	2.3901455	9	8	3	
ENSG0000	1.2289192	4.0291321	0.0043796	0.0188381	ZNF668
0167394	4	9		9	
ENSG0000	-	3.7201832	0.0043879	0.0188655	DET1
0140543	0.5510204	9	4	5	

ENSG0000	-	4.3346159	0.0043973	0.0188976	SETDB2
0136169	0.5092447	3	8	6	
ENSG0000	0.4721875	4.3883062	0.0044046	0.0189205	C1orf159
0131591	1	7	9	4	
ENSG0000	-	3.5252997	0.0044092	0.0189285	VANGL1
0173218	0.7713857	4	5	8	
ENSG0000	2.2548541	2.2961330	0.0044146	0.0189376	SYT15B
0277758	5	2	3	9	
ENSG0000	-	8.7999541	0.0044177	0.0189423	EIF3A
0107581	0.4192765	4	1	8	
ENSG0000	3.2719371	1.6002979	0.0044343	0.0190052	LNPEP
0113441	7	9	7	8	
ENSG0000	6.0436831	1.8203212	0.0044444	0.0190312	ADAP1
0105963	9		1	6	
ENSG0000	-	2.5553665	0.0044443	0.0190312	NCAPD3
0151503	1.1513198	8	7	6	
ENSG0000	0.9697777	3.0656602	0.0044586	0.0190691	TRIM5
0132256	5	1	4	6	
ENSG0000	-	5.6344681	0.0044568	0.0190691	TCOF1
0070814	0.8792372	7	7	6	
ENSG0000	-	5.8341761	0.0044592	0.0190691	ZNF271P
0257267	0.4483052	6	6	6	
ENSG0000	0.6478160	3.9985771	0.0044657	0.0190882	TRA2A
0164548	9	8	2	5	
ENSG0000	0.8532376	4.1200670	0.0044794	0.0191384	CDK20
0156345	9	2	6	2	
ENSG0000	-	2.8287985	0.0045936	0.0196176	GBAP1
0160766	0.7227054	9	7		
ENSG0000	-	2.5077359	0.0046009	0.0196309	DNAH14
0185842	0.7539298	2		2	
ENSG0000	-	3.4297320	0.0046005	0.0196309	SLC16A9
0165449	1.6611875	5	6	2	
ENSG0000	-	2.7997953	0.0046395	0.0197869	SEPTIN5
0184702	2.6322463	5	3	2	
ENSG0000	9.3309912	0.6237527	0.0046520	0.0198314	CSF3
0108342	8	7	5	2	
ENSG0000	0.6377259	4.2851592	0.0046717	0.0199065	ASB3
0115239	5	1	6	6	
ENSG0000	-	6.1193160	0.0046831	0.0199460	PRKACB
0142875	0.3998676	1	2	8	
ENSG0000	1.4227170	2.7927190	0.0046920	0.0199752	WASHC4
0136051	7	9	6	7	
ENSG0000	3.0977971	2.1294892	0.0047215	0.0200840	C3orf38
0179021	9	1	1	1	

ENSG0000	-	5.6090878	0.0047218	0.0200840	YWHAQ
0134308	0.8731988	5	1	1	
ENSG0000	-2.423214	2.6088956	0.0047630	0.0202323	PCSK9
0169174		4	4	2	
ENSG0000	0.5615557	4.6578186	0.0047612	0.0202323	VPS33A
0139719	2	9	6	2	
ENSG0000	0.8774195	3.2909449	0.0047781	0.0202820	RAB4B
0167578	3	6	2	4	
ENSG0000	-	6.7799171	0.0047789	0.0202820	ENSA
0143420	0.4070863	6	9	4	
ENSG0000	-	3.2322306	0.0047845	0.0202963	FBXO17
0269190	0.8203859	3		9	
ENSG0000	-	5.1535833	0.0047895	0.0203086	RALY
0125970	0.5897163		2	5	
ENSG0000	0.6832593	3.1431799	0.0047970	0.0203316	SNX24
0064652	1	2	6	2	
ENSG0000	-	3.5078345	0.0048105	0.0203798	FBXO5
0112029	0.6376226	6	8	9	
ENSG0000	1.2128888	1.8493021	0.0048177	0.0203940	PPP1R15A
0087074	9	9	9	9	
ENSG0000	1.7010708	2.8247246	0.0048182	0.0203940	PPIF
0108179	1	7	1	9	
ENSG0000	-	4.194511	0.0048235	0.0204078	PTCD2
0049883	0.5233036		8		
ENSG0000	-	3.9041199	0.0048271	0.0204140	C11orf24
0171067	0.9412295	3	9	1	
ENSG0000	-	2.8624993	0.0048329	0.0204291	TSPAN5
0168785	1.4546274	3	1	7	
ENSG0000	-0.850123	4.1166013	0.0048438	0.0204662	EEF2KMT
0118894		7	2	1	
ENSG0000	-	3.3652065	0.0048522	0.0204927	OXNAD1
0154814	0.6080731	1	5	8	
ENSG0000	-0.832315	3.8439003	0.0048563	0.0204960	ZNF559
0188321		1	9	9	
ENSG0000	-0.767957	7.9153221	0.0048862	0.0206090	DNMT1
0130816		1	7	8	
ENSG0000	1.4344803	4.1707816	0.0049217	0.0207497	PFKFB3
0170525		3	9	3	
ENSG0000	-	3.3984733	0.0049382	0.0208101	ANKRD36
0135976	1.0119961	2	9	1	
ENSG0000	-	3.0919938	0.0049481	0.0208426	CMKLR1
0174600	4.2378082	6	8		
ENSG0000	-	5.7491568	0.0049564	0.0208681	EVL
0196405	0.5786636	1	4	8	

ENSG0000	-	4.1792866	0.0049751	0.0209378	ARMH4
0139971	0.7408508	3	7		
ENSG0000	-	6.1328614	0.0049870	0.0209784	NEK6
0119408	0.6669855	2	2	4	
ENSG0000	1.0065354	7.4106429	0.0050008	0.0210274	DOK1
0115325	4	7	8	9	
ENSG0000	0.6614675	5.1837139	0.0050077	0.0210380	SLC35C2
0080189	3	1	7	5	
ENSG0000	0.4135963	7.7663149	0.0050078	0.0210380	RASSF8
0123094		7		5	
ENSG0000	-	7.7995197	0.0050409	0.0211681	CDC42BP
0143776	0.4006522		8	3	A
ENSG0000	-	4.2827216	0.0050432	0.0211683	FBXL2
0153558	0.9020501	1	5	7	
ENSG0000	0.5182191	4.8999681	0.0050808	0.0213169	ZNF276
0158805	5	5	9	7	
ENSG0000	1.9429076	3.0332077	0.0050938	0.0213618	TMEM132B
0139364		8	3	7	
ENSG0000	1.3683542	4.0979209	0.0051354	0.0215176	PPFIA4
0143847	1	2	7	1	
ENSG0000	0.6216418	9.0491715	0.0051379	0.0215184	NOMO2
0185164	6	7	2		
ENSG0000	-	3.4035672	0.0051401	0.0215184	PPP1CC
0186298	0.9634569	8	7	1	
ENSG0000	-	1.9585141	0.0051582	0.0215563	IQCC
0160051	0.9733561	1	6	3	
ENSG0000	0.7758081	3.5744247	0.0051539	0.0215563	DNAJA4
0140403		6	4	3	
ENSG0000	1.0498700	3.8133644	0.0051573	0.0215563	DYRK1B
0105204	4	2	7	3	
ENSG0000	0.4052770	5.9092555	0.0051531	0.0215563	DMTF1
0135164	3	8	4	3	
ENSG0000	0.6054928	4.5080633	0.0051712	0.0216012	SLC26A6
0225697	6	7	6	1	
ENSG0000	-	5.6064809	0.0051803	0.0216298	DCAF15
0132017	0.6486047	6	7	2	
ENSG0000	-	4.0217495	0.0052110	0.0217483	NLE1
0073536	1.2602278		5	9	
ENSG0000	0.7918836	4.3094806	0.0052137	0.0217502	CEP350
0135837	8		8	7	
ENSG0000	0.7479433	5.9921706	0.0052234	0.0217812	DNAJC7
0168259	2	7	8	4	
ENSG0000	-1.388841	1.3995764	0.0052373	0.0218109	FAM172A
0113391			9	7	

ENSG0000	0.5724632	4.8841394	0.0052374	0.0218109	GTPBP2
0172432	2	5	7	7	
ENSG0000	-	5.7355494	0.0052331	0.0218109	MTCH2
0109919	0.4803889	1	9	7	
ENSG0000	1.3374993	1.2600797	0.0052420	0.0218125	PTPRN2
0155093	7	3	9	6	
ENSG0000	2.3438257	2.0118136	0.0052424	0.0218125	DESI1
0100418	5	9	2	6	
ENSG0000	0.5504131	4.2976221	0.0052470	0.0218223	ZNF133
0125846	9	1	6	8	
ENSG0000	-0.91942	3.8199928	0.0052601	0.0218671	VEPH1
0197415		8	2	5	
ENSG0000	-	9.2636676	0.0052642	0.0218746	DST
0151914	0.6279248	8	2	7	
ENSG0000	-	3.4433737	0.0052732	0.0219027	TM7SF3
0064115	1.1583843		6	3	
ENSG0000	-	4.1191327	0.0052804	0.0219229	CDCA7L
0164649	2.0262881	6	2	4	
ENSG0000	-4.388791	-	0.0052837	0.0219271	SLC38A4
0139209		0.7499117	4	7	
ENSG0000	0.7722444	3.5508056	0.0052940	0.0219603	SEC22B
0265808		7	4	8	
ENSG0000	-0.806121	6.6686420	0.0052973	0.0219645	UACA
0137831		4	5	6	
ENSG0000	-	5.2261542	0.0053042	0.0219837	NFS1
0244005	0.5755281	6	7	2	
ENSG0000	-	10.714598	0.0053081	0.0219903	PABPC1
0070756	0.6609906	4	7	2	
ENSG0000	1.1700628	4.4088688	0.0053777	0.0222688	GRAMD2B
0155324	5	9	2		
ENSG0000	1.1578910	2.9099882	0.0053916	0.0223167	BAK1
0030110	3	9	4	8	
ENSG0000	-	5.6047652	0.0053948	0.0223202	HTRA2
0115317	0.6061962	1	1		
ENSG0000	0.7753904	2.6182412	0.0054008	0.0223354	SLC13A3
0158296	2	4	2		
ENSG0000	-	3.8063417	0.0054327	0.0224577	PMS2
0122512	0.9914518	6	6	5	
ENSG0000	2.7384214	1.4069720	0.0054438	0.0224938	EPB41L4A
0129595	9	9	4	1	
ENSG0000	0.5214652	3.5589118	0.0054513	0.0225152	DUSP23
0158716	3		7	1	
ENSG0000	0.3885501	6.6662429	0.0054677	0.0225731	KLHL5
0109790	8	5	6	3	

ENSG0000	1.6242913	2.1503419	0.0054845	0.0226326	ATP6V1B2
0147416		7	6	9	
ENSG0000	-	2.8954365	0.0054953	0.0226673	UTP14A
0156697	1.1118528	4	4	8	
ENSG0000	1.1361515	0.9804234	0.0055102	0.0227103	TLE1
0196781	9	3	5	3	
ENSG0000	1.9378431	2.2241455	0.0055105	0.0227103	CASZ1
0130940	4	8	1	3	
ENSG0000	-	5.2867226	0.0055149	0.0227186	MAP3K6
0142733	0.6976334	3	2	9	
ENSG0000	-	5.5949112	0.0055287	0.0227657	TRMU
0100416	0.5155272		1	2	
ENSG0000	-	4.5361639	0.0055336	0.0227761	WDR33
0136709	0.4800183	1	4	7	
ENSG0000	0.3843670	4.9659133	0.0055484	0.0228274	TMEM134
0172663	6	9	9	4	
ENSG0000	-	2.6688031	0.0055576	0.0228551	HSPA4L
0164070	2.6093814	9	2	8	
ENSG0000	-	3.8491425	0.0055671	0.0228843	RPS18
0231500	0.6648113	1	2	7	
ENSG0000	-	4.0574440	0.0055706	0.0228891	TBC1D8
0204634	2.2014935	7	7	2	
ENSG0000	-	6.3172192	0.0055751	0.0228977	FAM13B
0031003	0.3807642	9	6	1	
ENSG0000	0.6885456	4.6879355	0.0055835	0.0229223	TSC22D4
0166925	2	7	5	2	
ENSG0000	-1.033454	2.5478274	0.0056104	0.0230227	SDHAF3
0196636		7	2	2	
ENSG0000	-	6.8555001	0.0056130	0.0230235	STEAP3
0115107	0.4266648	5	3	5	
ENSG0000	0.4713532	5.7771088	0.0056374	0.0231139	FUNDC2
0165775	3	6	8	3	
ENSG0000	1.1418006	2.8447473	0.0056425	0.0231177	FLOT2
0132589	8	1	5	8	
ENSG0000	-	6.2858595	0.0056432	0.0231177	SNX21
0124104	0.5586825	8	7	8	
ENSG0000	1.0640648	4.5057945	0.0056497	0.0231342	RTKN
0114993	9	6			
ENSG0000	-	4.7907856	0.0056526	0.0231362	FAM89B
0176973	0.5610731	9	2	4	
ENSG0000	0.9061084	2.8187796	0.0056640	0.0231731	SLC25A45
0162241	8	6	7	8	
ENSG0000	1.6211025	2.3582897	0.0056727	0.0231987	ACSL1
0151726	1	6	5	5	

ENSG0000	0.8694897	4.2847724	0.0056915	0.0232655	CHEK2
0183765	7	2	1	1	
ENSG0000	-	4.3200104	0.0057249	0.0233921	APOLD1
0178878	1.4370312	1	4	6	
ENSG0000	-	5.0011992	0.0057325	0.0234031	COMMD4
0140365	0.9629098	9	3	3	
ENSG0000	-	5.6714076	0.0057312	0.0234031	MRPS11
0181991	0.3614779	3	5	3	
ENSG0000	1.4090577	7.9170316	0.0057507	0.0234673	CCBE1
0183287	3	1	1	3	
ENSG0000	-	5.1734986	0.0057639	0.0234810	LCLAT1
0172954	0.4786779	6	2	9	
ENSG0000	0.4517325	5.1249889	0.0057588	0.0234810	SCML1
0047634	5	9	6	9	
ENSG0000	-	6.1663269	0.0057618	0.0234810	APEX1
0100823	0.4788042	2	5	9	
ENSG0000	-0.369707	6.8122419	0.0057595	0.0234810	ETFA
0140374		9	6	9	
ENSG0000	4.5779174	-	0.0057736	0.0235108	ITPR2
0123104	3	0.4577391	9	5	
ENSG0000	0.8982657	2.8252340	0.0057772	0.0235154	NR1H3
0025434	7	5	7		
ENSG0000	0.5034834	5.9691644	0.0058023	0.0236072	SYNC
0162520	6	8		3	
ENSG0000	-	6.4921508	0.0058306	0.0237124	COX5A
0178741	0.3749323	8	4	5	
ENSG0000	-	7.5803756	0.0058360	0.0237243	MDFIC
0135272	0.5093184	3	6	5	
ENSG0000	5.3814270	1.1704552	0.0058761	0.0238771	MEFV
0103313	6	6	4	3	
ENSG0000	2.6734996	1.2818364	0.0058915	0.0239242	HES4
0188290	2	2	4	1	
ENSG0000	2.0686208	3.2291038	0.0058952	0.0239242	PPFIBP2
0166387	2	6	4	1	
ENSG0000	-0.845175	4.4131510	0.0058943	0.0239242	ARMCX4
0196440		6	6	1	
ENSG0000	0.5609445	6.2783382	0.0059114	0.0239797	FBXW5
0159069	2	9	5	9	
ENSG0000	-1.623106	2.4870515	0.0059213	0.0239894	RAET1E
0164520		7	6	2	
ENSG0000	-	3.9354133	0.0059180	0.0239894	MDM1
0111554	0.6961606	2	8	2	
ENSG0000	-	7.236013	0.0059192	0.0239894	EBNA1BP2
0117395	0.5082153		1	2	

ENSG0000	-	1.4310817	0.0059474	0.0240850	LINC01085
0248698	5.1414808	1	8	3	
ENSG0000	-	5.0854567	0.0059728	0.0241776	CYBRD1
0071967	1.2435479	8	9	7	
ENSG0000	0.8296363	3.3889664	0.0059782	0.0241890	HGS
0185359		6	3	2	
ENSG0000	0.3909979	4.4181399	0.0059812	0.0241909	SNRNP35
0184209	8	9	3	1	
ENSG0000	0.7631914	3.0228248	0.0060044	0.0242745	CHRNA1
0170175	8	5	5	5	
ENSG0000	-2.056568	2.8199886	0.0060071	0.0242750	RFX8
0196460		7	1	2	
ENSG0000	1.0019854	3.1810457	0.0060211	0.0243213	PIP4K2C
0166908	5	4	3	9	
ENSG0000	0.8679395	5.3010189	0.0060251	0.0243271	ALMS1
0116127	2	1		3	
ENSG0000	-	6.6785923	0.0060287	0.0243315	PKP4
0144283	0.9649341	9	5	7	
ENSG0000	0.6868779	6.0930025	0.0060579	0.0244390	DENND3
0105339	3	2	4	7	
ENSG0000	-	5.3847496	0.0060644	0.0244550	BICRAL
0112624	0.5260952	5	7	6	
ENSG0000	-0.374406	7.2650894	0.0060713	0.0244725	TNPO2
0105576		2	7	6	
ENSG0000	-	6.6939595	0.0060959	0.0245613	MCU
0156026	0.4719431	9	7	5	
ENSG0000	-	4.8823144	0.0061565	0.0247741	MFN1
0171109	1.1473186	6	8	8	
ENSG0000	0.4234421	4.9052586	0.0061552	0.0247741	SMIM12
0163866	8	6	9	8	
ENSG0000	0.8644980	4.4916032	0.0061640	0.0247939	LMF2
0100258	1	1	9	6	
ENSG0000	-	6.4643573	0.0061759	0.0248313	DYM
0141627	0.3893172	8	8	4	
ENSG0000	0.3797991	5.8473794	0.0062042	0.0249344	ARHGAP17
0140750	9	5	3	2	
ENSG0000	0.3998344	5.1599532	0.0062133	0.0249604	RNF135
0181481	9	2	1	3	
ENSG0000	-	3.8523239	0.0062537	0.0251123	PLCB1
0182621	1.3246662	6	6	6	
ENSG0000	0.6929620	7.8928056	0.0062599	0.0251267	IRS1
0169047	3	2	8	6	
ENSG0000	1.7047541	7.8362672	0.0063275	0.0253871	CA12
0074410	1	5	2	8	

ENSG0000	-	9.0009268	0.0063417	0.0254333	ILF3
0129351	0.3973739	3		9	
ENSG0000	-	1.3304337	0.0063925	0.0256263	SALL2
0165821	2.0118592	8		8	
ENSG0000	-	4.8964019	0.0064082	0.0256785	PTGR3
0180011	0.7575466	8	2	8	
ENSG0000	-	0.6002856	0.0064171	0.0257005	CKAP2L
0169607	3.7228584	9	1	6	
ENSG0000	1.4608386	3.9775116	0.0064215	0.0257005	ATP6V1H
0047249	5	3	9	6	
ENSG0000	0.4733509	6.5050662	0.0064217	0.0257005	CC2D1B
0154222	9	7	8	6	
ENSG0000	4.9679696	4.3228284	0.0064498	0.0257911	HLA-DPA1
0231389	9	4	2	8	
ENSG0000	0.8418447	7.4770885	0.0064492	0.0257911	ITPRIP
0148841	9	1	6	8	
ENSG0000	-	3.5206956	0.0064527	0.0257919	CCDC77
0120647	0.9498305	5	1	3	
ENSG0000	-	3.9791257	0.0064739	0.0258658	TRIM16L
0108448	1.3026614		2	8	
ENSG0000	0.4081164	6.0973045	0.0065107	0.0260020	ZMYM3
0147130	9	9	2	5	
ENSG0000	0.4826823	6.3131431	0.0065583	0.0261813	TXLNA
0084652	6	8	7	7	
ENSG0000	0.534104	9.2297737	0.0065743	0.0262340	PKM
0067225		7		1	
ENSG0000	-	2.3327148	0.0065863	0.0262709	SLC29A1
0112759	1.2986612		1	6	
ENSG0000	8.7793171	-	0.0065892	0.0262718	HCK
0101336	9	0.1183002	7		
ENSG0000	5.2660082	2.3543728	0.0066046	0.0263111	TGM2
0198959	3	8	5	4	
ENSG0000	0.9679219	2.8928964	0.0066024	0.0263111	CYP11A1
0140459	9	6		4	
ENSG0000	-	3.6014707	0.0066181	0.0263540	MCM9
0111877	0.5988942	9	9	9	
ENSG0000	1.1119698	4.2483699	0.0066312	0.0263950	MLLT3
0171843	9	5	5	9	
ENSG0000	4.0160654	0.7265257	0.0066431	0.0264190	HAPLN1
0145681	6	8	2	1	
ENSG0000	-	2.1018497	0.0066440	0.0264190	SVIP
0198168	1.2520782	2	5	1	
ENSG0000	-0.475963	6.3345285	0.0066455	0.0264190	UNC13B
0198722		5	6	1	

ENSG0000	2.1265745	1.1073496	0.0066566	0.0264298	HOXA4
0197576	2	5		7	
ENSG0000	-	3.8165862	0.0066558	0.0264298	LRFN4
0173621	1.0282589	9	7	7	
ENSG0000	0.5998487	4.4034641	0.0066560	0.0264298	PSMD4
0159352	2	2	2	7	
ENSG0000	-	6.9247162	0.0066695	0.0264702	GORASP2
0115806	0.2716558	4	5	9	
ENSG0000	-	6.5557397	0.0067192	0.0266565	RASA1
0145715	0.4022841	3	7	4	
ENSG0000	-	7.0142552	0.0067352	0.0267089	MAN2A1
0112893	0.5723761	7	7	2	
ENSG0000	-	9.0670003	0.0067498	0.0267557	MORF4L2
0123562	0.3522329	8	8	6	
ENSG0000	-	4.1878419	0.0067604	0.0267866	CHTF18
0127586	1.8248063	2	9	8	
ENSG0000	-	3.5862435	0.0067835	0.0268670	GNB1L
0185838	0.6158755	2	9	5	
ENSG0000	-	3.7154950	0.0067889	0.0268770	THEM4
0159445	0.7715082	9	3	6	
ENSG0000	0.7505973	3.2511687	0.0067960	0.0268940	SECISBP2
0187742	8	9	5	9	
ENSG0000	0.7740042	5.2802899	0.0068090	0.0269342	WIP1
0070540	7	3	2	5	
ENSG0000	0.4102688	4.4653372	0.0068304	0.0270077	ATXN3
0066427	5	9	2	2	
ENSG0000	-	1.7916301	0.0068370	0.0270227	SPATA18
0163071	2.4107457	3	5	4	
ENSG0000	0.5550757	4.7257278	0.0068478	0.0270541	MFSD8
0164073	4	8	1		
ENSG0000	0.5308821	5.2063854	0.0068655	0.0271130	ABCD4
0119688		5	7	5	
ENSG0000	0.5373341	5.5127248	0.0069088	0.0272728	PCNX4
0126773	2	5	9	2	
ENSG0000	1.3690167	4.4078448	0.0069143	0.0272831	TMEM41B
0166471	8		6	5	
ENSG0000	-	3.0353158	0.0069234	0.0273076	CDCA8
0134690	3.6734856	8	2		
ENSG0000	-	4.6769569	0.0069377	0.0273529	CEP164
0110274	0.5628945	9	9	9	
ENSG0000	0.3922625	9.9372353	0.0069416	0.0273570	MXRA7
0182534	9	4	9	9	
ENSG0000	-	1.9994132	0.0069468	0.0273662	PSAT1
0135069	2.9133119	3	9	7	

ENSG0000	0.9160677	2.9656014	0.0069621	0.0274151	SEMA4C
0168758	9	1	5		
ENSG0000	2.5687731	0.4702134	0.0069774	0.0274638	SFT2D2
0213064	8	5	1	3	
ENSG0000	-	6.1675529	0.0069882	0.0274949	NUDT4
0173598	0.6588396	4		8	
ENSG0000	-	5.2754430	0.0070031	0.0275422	ZNF507
0168813	0.4011019	9	1	9	
ENSG0000	-	4.5058131	0.0070122	0.0275667	ZNF3
0166526	0.8639312	8	1	4	
ENSG0000	4.2792203	0.6003743	0.0070345	0.0276431	APOBEC3
0243811	6	8	4	2	D
ENSG0000	0.4991532	4.0165458	0.0070478	0.0276841	RNF115
0265491	5	7	7	3	
ENSG0000	0.4989500	7.7349972	0.0070621	0.0277288	YBX3
0060138	8	1	6	5	
ENSG0000	-	6.5842636	0.0070986	0.0278490	OCRL
0122126	0.3472229	9		2	
ENSG0000	-	4.4011363	0.0071131	0.0278946	RRM2
0171848	4.0360871	6	5	5	
ENSG0000	-	1.1318824	0.0071398	0.0279560	TTK
0112742	2.7796024	3	5	9	
ENSG0000	-	2.1548566	0.0071388	0.0279560	IFITM10
0244242	1.9213237		7	9	
ENSG0000	-0.432489	6.3255744	0.0071434	0.0279560	THOC5
0100296		5	6	9	
ENSG0000	1.2947419	7.2452966	0.0071406	0.0279560	FBLN5
0140092	9	1	8	9	
ENSG0000	-	7.8605165	0.0071416	0.0279560	PCM1
0078674	0.4232709	8	6	9	
ENSG0000	2.2287607	2.0411906	0.0071915	0.0281210	H2BC5
0158373	6	2		6	
ENSG0000	-	4.0179475	0.0071907	0.0281210	HACL1
0131373	0.7021742	1	8	6	
ENSG0000	-	2.1845299	0.0071963	0.0281285	FANCB
0181544	1.4950928	1	7	9	
ENSG0000	-	4.2339784	0.0072316	0.0282466	GTF3A
0122034	0.8993553	8		7	
ENSG0000	1.0673271	7.6971508	0.0072325	0.0282466	LHFPL2
0145685	7	1		7	
ENSG0000	1.0056009	3.2442379	0.0072833	0.0284137	PTK2B
0120899	2	8	2		
ENSG0000	0.6288232	3.9954058	0.0072841	0.0284137	MID2
0080561	1	4	9		

ENSG0000	1.0762536	5.0643687	0.0073813	0.0287811	CCDC9
0105321	1	1	9		
ENSG0000	0.3074744	5.5932140	0.0074029	0.0288535	TMEM259
0182087	4	2	8	1	
ENSG0000	0.4795553	4.1796922	0.0074258	0.0289308	KRBOX5
0197302	6	1	5	1	
ENSG0000	-	3.0841131	0.0074349	0.0289542	SF3B4
0143368	2.1381855	6		5	
ENSG0000	0.6251844	3.1927550	0.0074380	0.0289547	BTN2A3P
0124549	9	8	5	4	
ENSG0000	-	2.1907014	0.0074477	0.0289805	GNB3
0111664	1.2417827	5	2	5	
ENSG0000	0.7764577	3.8528727	0.0074886	0.0291278	GRN
0030582	4	9	2	4	
ENSG0000	-	9.1339242	0.0075155	0.0292204	DCTN1
0204843	0.4085122	4		9	
ENSG0000	5.0603623	0.0280926	0.0075325	0.0292748	CHI3L2
0064886	2		4	1	
ENSG0000	0.3840900	8.0231620	0.0075368	0.0292795	MAGT1
0102158	7	5	1	1	
ENSG0000	-	7.1441186	0.0075696	0.0293951	PAMR1
0149090	0.9756235	5	6	6	
ENSG0000	-	6.4435080	0.0075734	0.0293978	AZIN1
0155096	0.4492927	9	3	4	
ENSG0000	0.3125840	7.516869	0.0075794	0.0294093	ITPRIPL2
0205730	3		8	7	
ENSG0000	0.2010367	8.0114770	0.0075850	0.0294190	GPR107
0148358	2	8	7	9	
ENSG0000	-	2.6897381	0.0075884	0.0294203	VAT1
0108828	2.3416789	6	8	8	
ENSG0000	0.3659334	7.3103932	0.0075954	0.0294356	ELOA
0011007	8	7	9		
ENSG0000	-	3.4929043	0.0076041	0.0294517	ANKRD35
0198483	1.0833555	4	9	5	
ENSG0000	-0.752465	4.9672542	0.0076058	0.0294517	DIS3L
0166938		3	3	5	
ENSG0000	-	4.8264084	0.0076269	0.0295213	RPL10A
0198755	0.5831673			9	
ENSG0000	7.1301567	-	0.0076427	0.0295709	DDX58
0107201	9	1.1135112	9		
ENSG0000	0.8411115	2.1723619	0.0076470	0.0295755	RNF44
0146083	6	3	9	6	
ENSG0000	0.3656382	5.8793829	0.0076618	0.0296088	MIDEAS
0156030	4	6	9		

ENSG0000	0.3011142	6.8405275	0.0076615	0.0296088	TRAF3
0131323	7	8	9		
ENSG0000	0.5482122	7.1593313	0.0076739	0.0296433	EXT1
0182197	1	1	2		
ENSG0000	-	2.7696393	0.0076876	0.0296843	EXOSC8
0120699	1.5405052	2	4	1	
ENSG0000	-1.941168	2.4586738	0.007717	0.0297856	PASK
0115687		7			
ENSG0000	-0.638015	3.7843651	0.0077478	0.0298925	ACOT11
0162390		7	4	9	
ENSG0000	0.3339665	6.4815332	0.0077916	0.0300493	NAA60
0122390	8	6	1	2	
ENSG0000	1.5220676	1.0565379	0.0078189	0.0301304	CACNA2D
0151062	4	7	7	9	4
ENSG0000	-	3.8443446	0.0078170	0.0301304	RPP40
0124787	0.5040638	5	9	9	
ENSG0000	0.3815591	6.0694202	0.0078261	0.0301459	DENND4C
0137145	1	4	4	4	
ENSG0000	-	0.7603293	0.0078425	0.0301847	CCDC110
0168491	2.4248182	4	3	3	
ENSG0000	-	2.1875940	0.0078639	0.0302549	GPRASP1
0198932	1.9282666	2	4	3	
ENSG0000	-	5.7085263	0.0078814	0.0303099	ZFP90
0184939	0.4684163	4	2	9	
ENSG0000	-	3.3546930	0.0078927	0.0303415	PTCH1
0185920	1.1610817	8	9		
ENSG0000	-	4.4922571	0.0079318	0.0304672	NDUFV3
0160194	0.6153183	4	9	8	
ENSG0000	-	6.8134824	0.0079307	0.0304672	MCM4
0104738	1.5806531	8	6	8	
ENSG0000	2.5289359	5.0056597	0.0079556	0.0305463	MME
0196549		4	8	7	
ENSG0000	-	0.7953367	0.0079634	0.0305636	HMCN1
0143341	2.6604771	4		9	
ENSG0000	0.9742901	4.3876636	0.0079703	0.0305780	SPCS3
0129128	3	7	4	7	
ENSG0000	1.2879287	2.7871912	0.0079747	0.0305827	CCND3
0112576	2	9	5		
ENSG0000	-	5.9293570	0.0079815	0.0305964	GDF15
0130513	1.2856298	1	3		
ENSG0000	0.3865921	7.2688003	0.0079858	0.0306005	GOPC
0047932	2	5	1	1	
ENSG0000	0.7055483	4.8658440	0.0080088	0.0306766	SRPX2
0102359	6	6	9	4	

ENSG0000	0.3323818	6.9007627	0.0080222	0.0307154	ABCF3
0161204	7	8	4	6	
ENSG0000	1.1641724	5.7385317	0.0080437	0.0307854	FILIP1L
0168386	3		4	3	
ENSG0000	-	10.901841	0.0080895	0.0309485	RPL10
0147403	0.4069964		9	1	
ENSG0000	1.1318164	2.8018327	0.0081303	0.0310446	CAND2
0144712	6	2	4	8	
ENSG0000	1.2072540	3.6844394	0.0081227	0.0310446	UBA6
0033178	2	9	1	8	
ENSG0000	0.7393141	4.6766803	0.0081332	0.0310446	AP5Z1
0242802	6	9	1	8	
ENSG0000	0.3623138	5.0813229	0.0081342	0.0310446	SELENOT
0198843	3	9	3	8	
ENSG0000	0.4142168	5.7710705	0.0081254	0.0310446	ST3GAL4
0110080	5	7	5	8	
ENSG0000	-	1.9049996	0.0081534	0.0311054	RINL
0187994	1.0422795	2	1	3	
ENSG0000	-	3.1089149	0.0081569	0.0311066	NCAPH
0121152	2.7077365	2	8	5	
ENSG0000	0.5867245	3.3935527	0.0081966	0.0312454	ZNF611
0213020	4		5	5	
ENSG0000	-	5.7566857	0.0082238	0.0313365	DDX11
0013573	0.8888093		4	6	
ENSG0000	-	2.4418545	0.0082281	0.0313403	SHMT1
0176974	1.5809032	7	2	7	
ENSG0000	-	5.0771573	0.0082416	0.0313792	NUDT16L1
0168101	0.4184025	8	2	9	
ENSG0000	0.7056502	3.7129887	0.0082470	0.0313874	C1orf52
0162642	1	9	5	5	
ENSG0000	-	2.1915228	0.0082603	0.0314254	PUSL1
0169972	1.4178783	1	4	9	
ENSG0000	0.6920573	4.2339779	0.0082702	0.0314508	COQ8B
0123815	4	7	9	1	
ENSG0000	-	4.4204546	0.0082764	0.0314617	ARF5
0004059	1.3830081	8	6	6	
ENSG0000	-	5.8678315	0.0082847	0.0314806	BEX3
0166681	0.6240763	8	2	2	
ENSG0000	1.2186669	3.9371385	0.0082948	0.0315066	CMAHP
0168405	4	8	6		
ENSG0000	-	9.2669410	0.0083214	0.0315949	PTMS
0159335	0.3990473	9	2	3	
ENSG0000	-	2.9905843	0.0083280	0.0316076	FANCG
0221829	2.6331233	9	7		

ENSG0000	0.3777176	6.5309163	0.0083594	0.0317141	RBM10
0182872	2		7	9	
ENSG0000	2.1121387	4.4094062	0.0083837	0.0317935	PLD1
0075651	6	9	2	6	
ENSG0000	-	3.0796461	0.0083932	0.0317979	NAE1
0159593	1.5448973	9	8	7	
ENSG0000	-	4.1563128	0.0083895	0.0317979	PXDN
0130508	0.8475641	2	1	7	
ENSG0000	1.3098886	5.0241716	0.0083948	0.0317979	H6PD
0049239		6	8	7	
ENSG0000	-	2.3624248	0.0084083	0.0318363	DPF1
0011332	1.7172664	3	5	7	
ENSG0000	0.4741943	5.7465001	0.0084249	0.0318865	RBM34
0188739	7	4	4	6	
ENSG0000	0.2455163	5.6658409	0.0084329	0.0319040	SMG8
0167447	3	4		2	
ENSG0000	2.5216884	4.6610809	0.0084495	0.0319542	ANKRD1
0148677	1	5	1	1	
ENSG0000	-	3.1043707	0.0084661	0.0320045	GLRB
0109738	2.6903568	6	6		
ENSG0000	0.3482159	5.0130518	0.0085066	0.0321447	PRRG1
0130962	9	9	2	3	
ENSG0000	-	3.2433324	0.0085368	0.0322351	MINDY4
0106125	0.7289629	3	1	1	
ENSG0000	0.5146281	7.4179350	0.0085372	0.0322351	MFSD1
0118855	5	2	9	1	
ENSG0000	0.4000743	7.1799258	0.0085430	0.0322439	RAB11A
0103769	9		2	8	
ENSG0000	-1.057094	3.4365968	0.0085507	0.0322477	HAUS5
0249115		2	6		
ENSG0000	-	3.8783258	0.0085479	0.0322477	SLC24A1
0074621	0.8587141	4	8		
ENSG0000	0.5110597	6.6122478	0.0085777	0.0323366	MIA3
0154305	1	2	3	5	
ENSG0000	-	4.2486702	0.0086083	0.0324393	PLEKHG3
0126822	0.8120321	7	7	5	
ENSG0000	0.8375638	3.9352746	0.0086256	0.0324916	LZTS3
0088899	1	7	5	5	
ENSG0000	0.3612055	6.0472556	0.0086703	0.0326471	PPP1R12C
0125503	4	3	4	1	
ENSG0000	1.2053646	4.7735467	0.0086759	0.0326554	DUSP6
0139318	2	9	7	2	
ENSG0000	-	3.7032712	0.0086897	0.0326910	ACOT13
0112304	0.6996672	6	3	1	

ENSG0000	-	4.5654901	0.0086922	0.0326910	CABLES2
0149679	0.4957019	3	7	1	
ENSG0000	0.4574354	6.5479326	0.0086997	0.0327061	DICER1
0100697	7	2			
ENSG0000	-	5.2999151	0.0087055	0.0327153	PPP2R2D
0175470	0.5361951	1	8		
ENSG0000	1.7549450	5.7059934	0.0087398	0.0328309	ANPEP
0166825	1	5		9	
ENSG0000	0.5757395	6.3516829	0.0087473	0.0328464	GRB2
0177885	8	5	7	9	
ENSG0000	0.7679992	4.5918405	0.008756	0.0328659	CHMP3
0115561	2	4		8	
ENSG0000	-	3.5219813	0.0087662	0.0328701	SPIN3
0204271	0.6678231	6	3	5	
ENSG0000	1.1283077	4.6126270	0.0087623	0.0328701	PSMA6
0100902	2	8	6	5	
ENSG0000	0.4693402	4.9112723	0.0087752	0.0328866	PDCD5
0105185		8	9	8	
ENSG0000	2.9985007	0.7649107	0.0087810	0.0328952	BANK1
0153064	2	8	2	4	
ENSG0000	-	4.3984459	0.0087878	0.0329036	SH3YL1
0035115	0.6038987	3	1	5	
ENSG0000	-	4.6191643	0.0087995	0.0329036	AFMID
0183077	0.5563959	6	4	5	
ENSG0000	0.7470621	5.3205619	0.0087974	0.0329036	SETX
0107290	6		6	5	
ENSG0000	0.3592972	7.0458548	0.0088005	0.0329036	SPATS2L
0196141	8	1		5	
ENSG0000	-	7.2789902	0.0087990	0.0329036	ALDH9A1
0143149	0.4522645	1	8	5	
ENSG0000	-	8.0571394	0.0088545	0.0330926	PAICS
0128050	0.5416596	5	1	6	
ENSG0000	-	3.8308370	0.0088838	0.0331893	HAT1
0128708	0.7741654	8	6	5	
ENSG0000	1.9955627	1.8516300	0.0089081	0.0332418	APH1B
0138613	1	7	2	2	
ENSG0000	1.5951593	1.8690700	0.0089118	0.0332418	VDR
0111424	5	5	3	2	
ENSG0000	-	2.4723217	0.0089111	0.0332418	TMEM241
0134490	1.1965466	5	4	2	
ENSG0000	-	3.6607192	0.0089039	0.0332418	AHRR
0063438	0.5446761	4	1	2	
ENSG0000	-	1.3975309	0.0089423	0.0333427	CCDC163
0280670	1.1494752	8	7	1	

ENSG0000	-	5.0723704	0.0089596	0.0333851	RPL13A
0142541	0.6414009	6	2	9	
ENSG0000	0.4728177	7.7150967	0.0089607	0.0333851	PLXNA3
0130827	5	2	5	9	
ENSG0000	0.2633879	6.7994330	0.0089803	0.0334451	TOR1AIP2
0169905	4	8	6	8	
ENSG0000	1.6779840	0.2289057	0.0089842	0.0334464	FTH1P23
0242960	2			6	
ENSG0000	0.5375686	4.4263847	0.0089922	0.0334632	FUT11
0196968	4	1	2	6	
ENSG0000	0.7386371	2.5869540	0.0089991	0.0334759	MRTFA
0196588	4	6	5	7	
ENSG0000	-	7.4154039	0.0090026	0.0334759	PDGFC
0145431	0.6174791	3	5	7	
ENSG0000	0.3951958	6.7177757	0.0090148	0.0335084	ALAS1
0023330		9	8	2	
ENSG0000	2.4420889	1.1579426	0.0090400	0.0335888	COL27A1
0196739	3	4	4	4	
ENSG0000	-	1.9723600	0.0090701	0.0336876	ZBTB8A
0160062	0.9670642	6	7	8	
ENSG0000	0.5252788	9.3778615	0.0090891	0.0337452	MAP7D1
0116871	4	9	9	1	
ENSG0000	-	5.8978739	0.0090998	0.0337716	OXR1
0164830	0.3971812	1	4	4	
ENSG0000	-	5.1322040	0.0091033	0.0337716	SMIM20
0250317	0.4019366	6	9	6	
ENSG0000	-	2.6457367	0.0091296	0.0338487	HMGB1P5
0132967	1.4463686	5		3	
ENSG0000	-	3.4021478	0.0091312	0.0338487	CAMLG
0164615	0.7475233	4	5	3	
ENSG0000	6.7158853	0.2649552	0.0091641	0.0339573	PLAAT4
0133321	3	3	2	8	
ENSG0000	0.5431271	5.7181380	0.0091721	0.0339740	MEF2D
0116604	7	7	6	1	
ENSG0000	7.4967029	0.3585310	0.0091887	0.0340223	NOD2
0167207	1	7	9	8	
ENSG0000	-	2.5147294	0.0092091	0.0340844	APOBEC3B
0179750	1.6735121	4	1	1	
ENSG0000	-	4.6710354	0.0092170	0.0340875	METTL22
0067365	0.4268338	6	9	1	
ENSG0000	-	10.257064	0.0092156	0.0340875	RPL15
0174748	0.4888382	8	8	1	
ENSG0000	-	1.8596017	0.0092219	0.0340922	STXBP6
0168952	4.0413182	4	5	8	

ENSG0000	-	8.1092895	0.0092433	0.0341581	PLXND1
0004399	0.7962004	6	4	4	
ENSG0000	0.8586830	3.5462961	0.0092497	0.0341685	ZDHHC5
0156599	4	1	3	3	
ENSG0000	-	5.8899489	0.0092723	0.0342389	MRPL11
0174547	0.3282567	7	8	7	
ENSG0000	0.2642997	8.6304766	0.0092943	0.0343067	TBC1D9B
0197226	4	1	2	2	
ENSG0000	0.6383227	3.3116009	0.0093083	0.0343450	DHRX
0169084	4	8	1	7	
ENSG0000	-	4.1608875	0.0093538	0.0344997	METTL15
0169519	0.4845958	6	5	6	
ENSG0000	0.3988888	5.5556978	0.0093668	0.0345342	RNF121
0137522	3	4	3	9	
ENSG0000	0.3504968	6.3195259	0.0093873	0.0345966	BRPF3
0096070	2	5	6	3	
ENSG0000	-	4.8979691	0.0093952	0.0346124	MAF
0178573	1.2810029	5	8	7	
ENSG0000	0.9739106	3.8902765	0.0094068	0.0346417	ATP5F1E
0124172	7		5	1	
ENSG0000	1.0213307	3.5214327	0.0094119	0.0346469	RCN1
0049449		6		8	
ENSG0000	0.7310557	3.6668529	0.0094180	0.0346562	TRIM44
0166326	6	2	5	4	
ENSG0000	1.4205320	2.4920133	0.0094811	0.0348750	ZFYVE26
0072121	9		8	9	
ENSG0000	-	4.7982709	0.0094897	0.0348932	IFT57
0114446	0.6453393	9	5		
ENSG0000	-	3.8576096	0.0095332	0.0350394	STAC
0144681	1.8330653	3	1	8	
ENSG0000	-	3.7172161	0.0095529	0.0350848	MBNL3
0076770	1.4631252	7		5	
ENSG0000	-	6.0504856	0.0095511	0.0350848	JPT1
0189159	0.9431153	8	3	5	
ENSG0000	1.1668050	5.0134657	0.0095720	0.0351416	UBXN4
0144224	2	1	3	1	
ENSG0000	0.9702648	3.8781825	0.0095877	0.0351856	SMG1P1
0237296	3	7	2	8	
ENSG0000	1.6914167	2.4404893	0.0096087	0.0352494	PTTG1IP
0183255	1		9	6	
ENSG0000	0.3751010	6.5531701	0.0096558	0.0354083	CNOT8
0155508	1	6	2	6	
ENSG0000	2.0657599	2.9727256	0.0096677	0.0354385	GABARAPL
0139112	9		6	4 1	

ENSG0000	-	1.5470945	0.0096888	0.0354885	DDX12P
0214826	2.0485427	3	3	5	
ENSG0000	0.7098919	6.1195607	0.0096867	0.0354885	TTLL3
0214021	3	3		5	
ENSG0000	-0.340006	6.9332666	0.0097194	0.0355871	TMEM181
0146433		2	8	4	
ENSG0000	-0.407965	3.8769953	0.0097385	0.0356432	PGBD1
0137338		8	3	6	
ENSG0000	-	0.7491063	0.0097489	0.0356677	CDC6
0094804	3.8000288	4	6	4	
ENSG0000	-2.095219	0.7164438	0.0097560	0.0356798	FRMPD3
0147234		1	2	9	
ENSG0000	-	2.6189011	0.0097709	0.0357208	CCDC150
0144395	0.9732086		6	6	
ENSG0000	0.6110347	4.4914094	0.0097969	0.035802	FBXO44
0132879	9	3			
ENSG0000	10.033407	3.3471430	0.0098129	0.0358262	GBP2
0162645	4	1	8	2	
ENSG0000	-	3.0404017	0.0098147	0.0358262	POC1B
0139323	0.7966909	1	9	2	
ENSG0000	-0.486005	4.8557769	0.0098085	0.0358262	CARD8
0105483		7	7	2	
ENSG0000	0.9922375	4.1182461	0.0098277	0.0358596	ANKZF1
0163516	5	2		6	
ENSG0000	-	3.9373657	0.009835	0.0358725	PRDM15
0141956	0.5861626	3		7	
ENSG0000	-	5.0203874	0.0098836	0.0360363	FAM86DP
0244026	1.1473627		8	8	
ENSG0000	1.6892087	1.8916043	0.0099154	0.0361110	ANGPTL4
0167772	5	7	7	3	
ENSG0000	-	4.2480888	0.0099155	0.0361110	ARMCX5
0125962	0.4112241	4		3	
ENSG0000	-	6.8066909	0.0099121	0.0361110	LUC7L3
0108848	0.3046966	7	4	3	
ENSG0000	0.2216246	6.4628991	0.0099988	0.0364006	TMEM222
0186501	4	2	3	1	
ENSG0000	-	4.0109556	0.0100256	0.0364844	STXBP4
0166263	1.1894889	2	9	8	
ENSG0000	0.6654323	7.3673147	0.0100794	0.0366661	HEG1
0173706	9	3	5	6	
ENSG0000	-	4.4799227	0.0101161	0.0367857	ATP1B1
0143153	2.0380374	8	8	6	
ENSG0000	-	3.4662808	0.0101412	0.0368628	BCL7A
0110987	1.1340431	3	4	6	

ENSG0000	-	6.9851935	0.0101589	0.0368992	UBE2G1
0132388	0.1970396	8	9	6	
ENSG0000	0.2579304	7.9535706	0.0101562	0.0368992	EMC10
0161671	5	1	1	6	
ENSG0000	0.3896686	5.1118796	0.0101651	0.0369074	COX17
0138495	4	7	1	5	
ENSG0000	0.8487975	3.2235714	0.0101783	0.0369134	VWA1
0179403	7	9	5	4	
ENSG0000	0.5317340	4.887	0.0101780	0.0369134	PRPF4B
0112739	8		1	4	
ENSG0000	0.6899048	5.2178954	0.0101766	0.0369134	ARID5B
0150347		3	4	4	
ENSG0000	-	2.6526334	0.0102053	0.0369972	PDIK1L
0175087	0.6160701	5	5	9	
ENSG0000	-	5.9204159	0.0102202	0.0370374	PDCD2
0071994	0.3027091	7	9		
ENSG0000	-	2.0399967	0.0102568	0.0371517	MTERF2
0120832	1.3280746	9	5		
ENSG0000	-1.008737	2.6764152	0.0102596	0.0371517	TEX261
0144043		8	1		
ENSG0000	-	4.1419681	0.0102653	0.0371582	ELP6
0163832	0.5534604	1	2	7	
ENSG0000	-	6.3788210	0.0102759	0.0371827	EZR
0092820	0.8346329	4	8	7	
ENSG0000	0.7732649	9.5340170	0.0102809	0.0371867	UBC
0150991	4	2	9	9	
ENSG0000	0.7784011	3.0384084	0.0102919	0.0371991	ZNF818P
0269001	7	4	5	7	
ENSG0000	0.2330040	6.2326098	0.0102922	0.0371991	MAP2K7
0076984	4	6		7	
ENSG0000	-	3.8564499	0.0103041	0.0372265	NFYB
0120837	0.6532174	9	9	9	
ENSG0000	0.4339270	7.3887851	0.0103075	0.0372265	PHC2
0134686	2	1	8	9	
ENSG0000	-	8.3595851	0.0103464	0.0373528	KHSRP
0088247	0.4250974	5	4	1	
ENSG0000	0.3147727	5.2032304	0.0103698	0.0374091	MAD2L1BP
0124688	9	7	8	4	
ENSG0000	-	5.6208215	0.0103895	0.0374657	PRSS12
0164099	2.2402633	3		5	
ENSG0000	3.3353110	-	0.0104036	0.0375026	KCNA1
0111262	3	0.1775927	7	9	
ENSG0000	-	1.6803862	0.0104279	0.0375718	SGTB
0197860	1.1110213	9	6	8	

ENSG0000	1.0582910	1.7312776	0.0104307	0.0375718	CCL28
0151882	1	3	3	8	
ENSG0000	1.1678480	2.0102476	0.0104414	0.0375961	ZNF613
0176024	4	3	1	7	
ENSG0000	-	6.1090311	0.0104561	0.0376207	RSRP1
0117616	0.3601723	6	2	7	
ENSG0000	-	1.9518449	0.0104867	0.0376925	EIF2D
0143486	1.0666307	6	4		
ENSG0000	-	3.1889609	0.0104894	0.0376925	PLA2G12A
0123739	0.9562679	4	6		
ENSG0000	-	3.3742328	0.0104900	0.0376925	RPRD1A
0141425	1.3000617	4	1		
ENSG0000	-	7.2736029	0.0104918	0.0376925	TBC1D5
0131374	0.5136631	3	5		
ENSG0000	-	4.4511388	0.0105253	0.0377987	PRICKLE1
0139174	1.1946472	2	8	4	
ENSG0000	0.4403229	4.9433159	0.0105408	0.0378401	FAM210A
0177150	9	6	7	6	
ENSG0000	-	7.5591183	0.0105469	0.0378478	ACO1
0122729	0.3898174		9	8	
ENSG0000	0.5261474	3.5020399	0.0105609	0.0378695	EMC6
0127774	8	2	7	7	
ENSG0000	-	7.9103169	0.0105585	0.0378695	TOP2B
0077097	0.2242212	8	9	7	
ENSG0000	0.9922182	4.0648986	0.0105790	0.0379202	TLR4
0136869	4	1	7	6	
ENSG0000	-0.370914	6.6077839	0.0105936	0.0379581	SEPTIN2
0168385		1	1	3	
ENSG0000	0.6536434	3.3086676	0.0106035	0.0379796	USP49
0164663	9	4	9	3	
ENSG0000	-	0.7306123	0.0106317	0.0380660	NR3C2
0151623	2.2155143	5	1	6	
ENSG0000	-0.658611	2.5264099	0.0106676	0.0381803	ZC3H8
0144161		3	1		
ENSG0000	0.6913473	3.4797169	0.0106932	0.0382577	LINS1
0140471	6	6	7	8	
ENSG0000	-	4.1006308	0.0107119	0.0382920	RPL27
0131469	0.5942808	7		2	
ENSG0000	-	4.2923131	0.0107091	0.0382920	RIOX2
0170854	0.6960165	9	7	2	
ENSG0000	-	5.8313659	0.0107148	0.0382920	KAZN
0189337	0.6151216	4	7	2	
ENSG0000	-	6.4020644	0.0107300	0.0383319	TXNL4A
0141759	0.4712665	3	6	6	

ENSG0000	0.3574274	6.2237337	0.0107470	0.0383784	TEX264
0164081	9	8	8		
ENSG0000	-0.290723	7.0409164	0.010756	0.0383959	OLA1
0138430		3		2	
ENSG0000	0.2303235	7.8015429	0.0108147	0.0385912	PSMA1
0129084	4	7	6	2	
ENSG0000	-	2.3184079	0.0108310	0.0386204	TEX30
0151287	1.8361248	2	2		
ENSG0000	-	9.0092717	0.0108291	0.0386204	RAN
0132341	0.5401142	3	6		
ENSG0000	-	5.3604741	0.0108443	0.0386533	TBX15
0092607	0.6969307	3	2	8	
ENSG0000	0.9638977	3.4928116	0.0108627	0.0387046	SYTL4
0102362	6	5	4		
ENSG0000	-1.395942	4.2939946	0.0108681	0.0387095	FANCA
0187741		2	8	4	
ENSG0000	-	2.4091560	0.0108853	0.0387561	ZNF34
0196378	0.7093302	5	2	4	
ENSG0000	-	4.1111663	0.0109226	0.0388745	GPALPP1
0133114	0.3884967	7	7	9	
ENSG0000	0.4951344	6.0111943	0.0109506	0.0389594	RNPEPL1
0142327	5	8		8	
ENSG0000	-	6.6265119	0.0110468	0.0392874	MTDH
0147649	0.3591741	2	8	1	
ENSG0000	-	6.8738834	0.0110560	0.0393054	ANAPC11
0141552	0.3585249	2	7	5	
ENSG0000	-	5.2120143	0.0110822	0.0393838	PLEKHH3
0068137	0.4560515	7	4		
ENSG0000	-	2.3759341	0.0110975	0.0394220	SPTBN4
0160460	1.0831378	9	3	3	
ENSG0000	1.0031139	4.1166278	0.0111024	0.0394220	NF1
0196712	3	1	8	3	
ENSG0000	-	6.3878073	0.0111053	0.0394220	PA2G4
0170515	0.4964539	3	8	3	
ENSG0000	0.2256354	7.0996011	0.0111163	0.0394464	AKR1A1
0117448	6	8	7		
ENSG0000	0.4740653	4.2657481	0.0111477	0.0395431	CCDC28A
0024862	1	2	7	1	
ENSG0000	-	7.6621354	0.0112176	0.0397762	MACROH2
0113648	0.2700554	5	7	7	A1
ENSG0000	-	2.7788996	0.0112642	0.0399266	SLC4A8
0050438	1.1268133	1	5	4	
ENSG0000	-	5.5383439	0.0112871	0.0399841	XPO4
0132953	0.5153004	4		6	

ENSG0000	0.4598250	5.7301530	0.0112930	0.0399841	DENND4A
0174485	1	1	4	6	
ENSG0000	0.6946542	6.6267845	0.0112925	0.0399841	PPFIBP1
0110841	3	6	6	6	
ENSG0000	-	4.1874432	0.0113194	0.0400629	PRDM5
0138738	0.6408829		9	5	
ENSG0000	-	3.8546785	0.0113432	0.0401293	DIMT1
0086189	1.0537923	5	4	7	
ENSG0000	0.2345412	8.3281504	0.0113466	0.0401293	RAB6A
0175582	5	2	7	7	
ENSG0000	-	1.6434723	0.0113841	0.0402470	MRPL13
0172172	1.5115688	9	6	9	
ENSG0000	0.2537180	7.7008003	0.0114765	0.0405587	EXOC7
0182473	4	3	5		
ENSG0000	1.0950294	4.1618407	0.0115212	0.0407016	HSD3B7
0099377	8		7	8	
ENSG0000	-	3.1296907	0.0115968	0.0409384	C15orf40
0169609	0.7689786	5	8	8	
ENSG0000	0.8569414	3.7061393	0.0115956	0.0409384	BBC3
0105327	3	7		8	
ENSG0000	-	8.2230073	0.0116047	0.0409509	HNRNPUL
0105323	0.3330549	2	1	8	1
ENSG0000	0.4371915	5.6262743	0.0116265	0.0410127	COPZ1
0111481	4	9	2	8	
ENSG0000	-	3.9746546	0.0116452	0.0410637	CRYZL2P
0242193	0.5573899	4	8	9	
ENSG0000	0.9229163	3.2215861	0.0116511	0.0410692	SCAND2P
0176700		8	2	2	
ENSG0000	1.8568476	4.6521071	0.0116829	0.041151	IL6ST
0134352	5	6	4		
ENSG0000	-	7.2344461	0.0116823	0.041151	NCL
0115053	0.4406901	4	4		
ENSG0000	-	2.3841891	0.0116941	0.0411602	MSTO2P
0203761	1.2684852	6	9	8	
ENSG0000	-	2.8971771	0.0117088	0.0411965	NUDT4P2
0271121	0.7075817			2	
ENSG0000	-	2.4922882	0.0117349	0.0412316	SLC2A8
0136856	1.0223167	5	6	4	
ENSG0000	-	3.5268918	0.0117360	0.0412316	CDKN2D
0129355	1.0515501	9	6	4	
ENSG0000	-	6.4576573	0.0117297	0.0412316	RHEB
0106615	0.2973258	2	6	4	
ENSG0000	-	7.4600991	0.0117338	0.0412316	RUVBL2
0183207	0.4084788	4	4	4	

ENSG0000	0.4211153	5.0625015	0.0117412	0.0412346	ZNF319
0166188	1	7	4	6	
ENSG0000	-	6.9840238	0.0117684	0.0413149	PARK7
0116288	0.4638807	3	2	4	
ENSG0000	5.9148861	2.3859952	0.0118274	0.0414916	C3
0125730	7	8	4	3	
ENSG0000	-	5.5892731	0.0118233	0.0414916	SLC35A3
0117620	0.3160568	5	8	3	
ENSG0000	0.4462049	6.9028954	0.0118628	0.0416004	RB1
0139687	6	9		1	
ENSG0000	-0.31994	6.9063055	0.0118813	0.0416501	NIPA2
0140157		3	5	4	
ENSG0000	-	3.8142443	0.0118887	0.0416609	CACNA1C
0151067	1.0572974	4	9	5	
ENSG0000	0.7784863	2.7087822	0.0119019	0.0416916	DNAJC2
0105821	9	5	3	7	
ENSG0000	-	3.1425777	0.0119069	0.0416938	PARP1
0143799	0.8094475	1	2	7	
ENSG0000	1.3517088	2.4934351	0.0119212	0.0416982	RAB9A
0123595	3	9	8	8	
ENSG0000	-1.380596	4.0087235	0.0119129	0.0416982	MFAP2
0117122			3	8	
ENSG0000	1.0639285	3.8628932	0.0119211	0.0416982	GTF2IRD2
0196275	8	2	7	8	
ENSG0000	1.9517154	2.3642346	0.0119427	0.0417419	KRT8
0170421	6	7	5	2	
ENSG0000	0.7232852	2.3548941	0.0119468	0.0417419	SGCB
0163069	5	1	7	2	
ENSG0000	0.5860356	5.3544487	0.0119459	0.0417419	ANKRD13A
0076513	2	1	6	2	
ENSG0000	-1.007544	2.6721310	0.0119907	0.0418798	ORC6
0091651		6	4	6	
ENSG0000	-	5.9676311	0.0120372	0.0420269	ORC3
0135336	0.2727494	8	4	1	
ENSG0000	-4.67083	1.2557568	0.0120584	0.0420477	CDK15
0138395		5	6		
ENSG0000	-0.60639	2.8346488	0.0120519	0.0420477	ZNHIT6
0117174		8	8		
ENSG0000	1.0367186	3.6872495	0.0120599	0.0420477	TBX3
0135111	3	4	5		
ENSG0000	0.4946719	4.4772565	0.0120608	0.0420477	HOXD8
0175879	9	9	1		
ENSG0000	0.3505522	5.8033810	0.0120662	0.0420514	STRN3
0196792	8	3	9	6	

ENSG0000	0.4453635	10.275125	0.0121078	0.0421808	SPTAN1
0197694	2	5	3	2	
ENSG0000	0.5089580	5.6945771	0.0121433	0.0422892	MIER2
0105556	1	2	7	2	
ENSG0000	-	2.3412130	0.0121784	0.042396	MTRF1
0120662	0.7399121	5	7		
ENSG0000	-	2.0751664	0.0122221	0.0425169	TTYH3
0136295	2.8930872		2	6	
ENSG0000	-	4.5335146	0.0122203	0.0425169	YDJC
0161179	0.5686229	4	7	6	
ENSG0000	0.8832665	4.8285659	0.0122331	0.0425243	PLEKHM2
0116786	1	1	5	3	
ENSG0000	0.3746036	6.7613436	0.0122318	0.0425243	HSBP1
0230989	8		4	3	
ENSG0000	1.5947120	1.8759821	0.0122578	0.0425945	MECP2
0169057	7	2			
ENSG0000	-	3.0975056	0.0122903	0.0426611	TMEM254
0133678	0.6239321	7	7	2	
ENSG0000	0.7091306	3.8856372	0.0122899	0.0426611	HDHD2
0167220	5	1	1	2	
ENSG0000	-	8.3932344	0.0122885	0.0426611	TEAD1
0187079	0.3430722	8		2	
ENSG0000	-	7.1327411	0.0123498	0.0428518	TCF12
0140262	0.4109522	6	1	7	
ENSG0000	1.0896926	2.8163168	0.0124648	0.0432354	SLU7
0164609	6	2	9	5	
ENSG0000	-	4.3042389	0.0125096	0.0433750	TIMM50
0105197	0.5924885	9	7	5	
ENSG0000	3.6309158	0.7746063	0.0125482	0.0434644	FNDC5
0160097	3	4	8	2	
ENSG0000	-	2.7522634	0.0125491	0.0434644	PRSS3
0010438	2.4983761	6	1	2	
ENSG0000	-	2.4948038	0.0125412	0.0434644	TMEM120B
0188735	1.0217852	3	8	2	
ENSG0000	-	3.8269213	0.0125764	0.0435275	DUSP14
0276023	1.0534831	5	6	8	
ENSG0000	0.7813692	8.3379565	0.0125732	0.0435275	MET
0105976	1	4	1	8	
ENSG0000	1.2715137	5.4508108	0.0125823	0.0435321	UBE3A
0114062	7	2	4	5	
ENSG0000	-	6.0292572	0.0125879	0.0435356	OLFML2B
0162745	1.2401315	1		3	
ENSG0000	-	6.2950474	0.0126530	0.0437452	ELAVL1
0066044	0.3016914	6	9	2	

ENSG0000	0.2513236	6.5176520	0.0126604	0.0437549	SNRPB2
0125870	9	8	9	8	
ENSG0000	-	4.4987152	0.0127325	0.0439758	ITGB3BP
0142856	0.6704361	8	8	6	
ENSG0000	-	4.6136174	0.0127336	0.0439758	SEC22A
0121542	0.4606924	9	1	6	
ENSG0000	1.1520424	1.4816377	0.0127604	0.0440339	RIMBP3
0275793	9	8	9	7	
ENSG0000	0.6334149	3.8252255	0.0127594	0.0440339	AP3S2
0157823	7	4	7	7	
ENSG0000	0.4797934	4.3576554	0.0127642	0.0440339	HSF1
0185122	5	7	7	7	
ENSG0000	-	6.5390877	0.0128010	0.0441450	SNRPN
0128739	0.5101862	1	9	5	
ENSG0000	-	5.4044040	0.0128165	0.0441663	PCDHGB4
0253953	0.8403358	3	1	2	
ENSG0000	-	6.4035183	0.0128125	0.0441663	RYK
0163785	0.3886716	2		2	
ENSG0000	-	1.9093897	0.0128327	0.0442062	AXIN2
0168646	2.7309157	8	2	3	
ENSG0000	1.0152996	2.4285144	0.0128436	0.0442279	RAPGEFL1
0108352	4	1	5	1	
ENSG0000	-	3.8661079	0.0128707	0.0443051	ATP8B1
0081923	2.6202253	4	3	8	
ENSG0000	2.0271332	1.1450148	0.0128864	0.0443433	CDKN1C
0129757	6	6	5	1	
ENSG0000	-	0.7764071	0.0129004	0.0443753	MAFG
0197063	3.2730164	9	1	6	
ENSG0000	-	3.3374205	0.0129369	0.0444851	REEP4
0168476	1.9744481	1	9	8	
ENSG0000	-	8.1634503	0.0129547	0.0445300	ARHGEF12
0196914	0.4703584		1	7	
ENSG0000	1.8032742	0.7463337	0.0129925	0.0446398	KCTD4
0180332	5	2	3	2	
ENSG0000	1.3150154	3.3073954	0.0129959	0.0446398	EMILIN2
0132205	5	6	9	2	
ENSG0000	-	10.063458	0.0130378	0.0447675	RPL37A
0197756	0.3218059	4	7	8	
ENSG0000	-	4.7961036	0.0130819	0.0449028	USP39
0168883	0.5772725	4	8	8	
ENSG0000	-	7.0417559	0.0131039	0.0449621	CCDC88A
0115355	0.6348014	6	7	9	
ENSG0000	0.4770194	4.0466535	0.0131164	0.0449887	SELENOS
0131871	7		3	8	

ENSG0000	0.3061703	5.2097264	0.0131668	0.0451455	STX7
0079950	3	5	7	8	
ENSG0000	-	3.9406666	0.0131970	0.0452328	SDHAP4
0214135	0.4538124	2	5	1	
ENSG0000	0.4958068	3.9455048	0.0132192	0.0452925	FAM32A
0105058	4	3	2	4	
ENSG0000	-1.659445	2.2889622	0.0132774	0.0454755	MSH5
0204410			1	9	
ENSG0000	-	2.1612771	0.0133040	0.0455504	PDZD8
0165650	2.7691449	6	4	6	
ENSG0000	0.3037413	7.1279333	0.0133338	0.0456360	CAMSAP2
0118200	6	1	1	5	
ENSG0000	-	8.6149550	0.0133741	0.0457576	TNPO1
0083312	0.4186389	1	3	5	
ENSG0000	-0.528915	6.4530286	0.0134422	0.0459576	PCDHGB5
0276547		8	1	3	
ENSG0000	-	8.7105711	0.0134385	0.0459576	NACA
0196531	0.2931747	9	4	3	
ENSG0000	-	9.1682365	0.0135355	0.0462600	FUS
0089280	0.4840641	1	1	5	
ENSG0000	0.8168193	1.2398506	0.0135522	0.0463008	CRX
0105392	5	8	9	2	
ENSG0000	-	3.8424709	0.0136038	0.0464605	AFF3
0144218	1.9526153	3	9		
ENSG0000	-	2.5481405	0.0136180	0.0464923	LRRC47
0130764	0.6972263	6	9	5	
ENSG0000	1.0584270	1.6460091	0.0136640	0.0466325	L2HGDH
0087299	7		3	2	
ENSG0000	-0.594925	4.2900257	0.0137193	0.0468044	HMG20B
0064961			2	9	
ENSG0000	-	3.3641045	0.0137258	0.0468099	CEP57
0166037	1.0922008	4	2	5	
ENSG0000	2.0897960	1.8271815	0.0137427	0.0468508	TMEM130
0166448	7	9	3	7	
ENSG0000	-	3.450631	0.0137546	0.0468747	C17orf75
0108666	0.7877724		3	1	
ENSG0000	0.7930844	6.0972802	0.0137699	0.0468766	NOTCH2N
0264343	8	3	1		LA
ENSG0000	0.2605663	6.3275131	0.0137676	0.0468766	DDT
0099977	2	4	7		
ENSG0000	0.2512241	6.8628807	0.0137630	0.0468766	TFE3
0068323	5	2	8		
ENSG0000	-	5.1759772	0.0138117	0.0470023	RGS12
0159788	0.5530349	4	7	6	

ENSG0000	1.3288765	1.1257585	0.0138373	0.0470556	CCL26
0006606	5	1		9	
ENSG0000	-	5.9011634	0.0138372	0.0470556	FOXC2
0176692	1.3817429	8	2	9	
ENSG0000	-	3.0603313	0.0138936	0.0472303	TUBGCP4
0137822	0.8300721	7		1	
ENSG0000	0.2071457	7.8843718	0.0139371	0.0473616	AP1M1
0072958	6	6	8	3	
ENSG0000	-	1.9232960	0.0139631	0.0474328	MTFR2
0146410	2.5687317	7	2	7	
ENSG0000	4.3995319	3.0295627	0.0139953	0.0475255	FMNL2
0157827	4	2	7	2	
ENSG0000	0.6066764	5.1331549	0.0140139	0.0475716	USP53
0145390	2	1	4	8	
ENSG0000	0.6744516	5.6606908	0.0140250	0.0475924	WDR81
0167716	1	9	3	1	
ENSG0000	0.6290841	3.4597754	0.0140300	0.0475924	BDH2
0164039	7	3	4	9	
ENSG0000	-	4.3044001	0.0140620	0.0476671	HTR7P1
0183935	0.7928233	7	2		
ENSG0000	-0.310781	6.9371169	0.0140591	0.0476671	TRPM7
0092439		1	2		
ENSG0000	-	0.8564071	0.0140681	0.0476708	C10orf105
0214688	5.6656652	5	3	9	
ENSG0000	-	3.0973293	0.0140852	0.0477118	TTLL11
0175764	0.6704958	2	1	4	
ENSG0000	0.6414656	2.4221534	0.0141077	0.0477711	CSRNP2
0110925	5	3	2	6	
ENSG0000	-0.669068	4.6353710	0.0141799	0.0479986	FAM200B
0237765		5	2	1	
ENSG0000	-	3.2558376	0.0141916	0.0480211	CEP44
0164118	1.4953644	5	1	5	
ENSG0000	0.3455393	5.9896584	0.0142384	0.0481626	PSENEN
0205155	9	5	6		
ENSG0000	0.4717441	5.7222967	0.0142485	0.0481795	FRS2
0166225	5		3	9	
ENSG0000	1.0337715	5.0794733	0.0142929	0.0483127	CASP3
0164305	7	5	6	4	
ENSG0000	1.3003244	2.5830152	0.0143305	0.0484227	PIK3R3
0117461	3	2	9	7	
ENSG0000	-	3.1516805	0.0143696	0.0485203	SMIM30
0214194	1.2631552	3	4	9	
ENSG0000	-	4.5814810	0.0143683	0.0485203	MRE11
0020922	0.8434272	6	4	9	

ENSG0000	-	7.5992598	0.014382	0.0485449	UQCRB
0156467	0.3950277	4		6	
ENSG0000	-	4.4314892	0.0144561	0.0487755	CRLS1
0088766	0.2735637	3		3	
ENSG0000	0.3071424	8.2376246	0.0144605	0.0487755	CPNE1
0214078	2	4	2	3	
ENSG0000	0.6098330	2.0575404	0.0144846	0.0488397	CIAO2B
0166595	6	4	9	9	
ENSG0000	-	5.6689187	0.0144904	0.0488419	TAF6
0106290	0.6057202	9	3	1	
ENSG0000	-	3.6395296	0.0145051	0.0488743	LNK1
0072201	2.6390208	8	7	3	
ENSG0000	-1.358527	2.4237944	0.0145573	0.0490329	TUBGCP3
0126216			8	5	
ENSG0000	-	3.3337140	0.0145685	0.0490533	TMTC4
0125247	0.9182573	4	7	4	
ENSG0000	1.1842780	2.5172467	0.0145829	0.0490845	STARD13
0133121	8	7	9	8	
ENSG0000	4.7851692	3.6337147	0.0145980	0.0491005	HLA-B
0234745	7	5	1	4	
ENSG0000	0.4496512	6.0803628	0.0145942	0.0491005	DENND10
0119979	4	1	3	4	
ENSG0000	0.2209071	10.575469	0.0146160	0.0491266	OAZ1
0104904	9		7	8	
ENSG0000	0.4659326	6.8608368	0.0146113	0.0491266	DAPK3
0167657	7	3	8	8	
ENSG0000	0.5006706	2.2996156	0.0146380	0.0491831	SYNJ2BP
0213463	4	8	1	1	
ENSG0000	-	4.5985546	0.0147104	0.0494089	NOL4L
0197183	0.6042887	6	1	6	
ENSG0000	0.9846824	2.0594445	0.0147239	0.0494371	TMEM102
0181284	4	2	8	5	
ENSG0000	0.2700845	6.4995906	0.0147468	0.0494964	CNOT2
0111596	1	7	2	5	
ENSG0000	-	6.2356514	0.0148070	0.0496811	SLC4A7
0033867	0.6477425		6	8	
ENSG0000	-	5.8058159	0.0148329	0.0497330	SAMD11
0187634	1.7776707	2	4	5	
ENSG0000	-	7.1206567	0.0148295	0.0497330	UNC5B
0107731	1.2792811	3	3	5	
ENSG0000	-	1.9945458	0.0148823	0.0498575	POLE2
0100479	3.8858869	9	7	7	
ENSG0000	0.9078260	4.2247700	0.0148795	0.0498575	SMG6
0070366	7	2	5	7	

ENSG0000	-	5.7984828	0.0148857	0.0498575	EZH2
0106462	0.6125555		4	7	
ENSG0000	-	1.5364554	0.0149239	0.0499449	RAPH1
0173166	1.5630876	4	5	9	
ENSG0000	-	3.7505032	0.0149274	0.0499449	GAS8
0141013	0.6619918	5	2	9	
ENSG0000	0.2521663	7.0622783	0.0149275	0.0499449	ACAA2
0167315	7	7	3	9	
ENSG0000	-	5.6541358	0.0149544	0.0500175	CNOT7
0198791	0.4167166	6	7	9	
ENSG0000	-	6.0711413	0.0149682	0.0500462	MPDZ
0107186	0.4510833	8	8	4	
ENSG0000	0.4315842	5.9117061	0.0150069	0.0501579	CASK
0147044	2	3	5	7	
ENSG0000	-	0.4660707	0.0150275	0.0502092	LSM12P1
0232024	5.4235769		6	8	
ENSG0000	-	5.9318417	0.015056	0.0502691	VPS8
0156931	0.3585198	9		5	
ENSG0000	0.3924550	6.9792825	0.015056	0.0502691	SDCBP
0137575	1	5		5	
ENSG0000	-	5.8012580	0.0150732	0.0503090	TPST2
0128294	0.3946269	1	1	1	
ENSG0000	0.8048676	3.0426643	0.0150802	0.0503149	LEPROTL1
0104660	2	4	5	1	
ENSG0000	-	0.5399558	0.0150949	0.0503463	EIF3FP3
0233426	1.4185783		6	9	
ENSG0000	2.7686065	6.2832383	0.0151261	0.0504328	MT2A
0125148		6	5	3	
ENSG0000	-	3.7996064	0.0151493	0.0504926	TBC1D7
0145979	0.7230851	1	8	6	
ENSG0000	-	2.5195782	0.0151759	0.0505601	DPF3
0205683	0.9815453	9	6		
ENSG0000	1.3613645	3.0604187	0.0151802	0.0505601	ANAPC1P4
0234231	6	1	1		
ENSG0000	-	7.0337534	0.0151955	0.0505934	PTP4A1
0112245	0.3567319	1	1		
ENSG0000	-	3.8110817	0.0152257	0.0506762	DONSON
0159147	0.9686238	4		8	
ENSG0000	0.9098790	2.9114485	0.0153000	0.0509059	DTX3
0178498	8	7	4	4	
ENSG0000	2.0190534	1.8335946	0.0153540	0.0510566	HTR2A
0102468	9	3	9	3	
ENSG0000	-0.321477	7.1851877	0.0153560	0.0510566	CTBP2
0175029		9	2	3	

ENSG0000	-	1.1036209	0.0154444	0.0512898	EVA1CP2
0271977	4.3545186	9	6	5	
ENSG0000	-	2.9410766	0.0154367	0.0512898	PSD3
0156011	1.1961769	8	5	5	
ENSG0000	0.4961127	5.1050897	0.0154476	0.0512898	IDS
0010404	3	5	5	5	
ENSG0000	1.2848788	5.6936976	0.0154371	0.0512898	EDIL3
0164176		1	4	5	
ENSG0000	-	1.7255237	0.0154612	0.0513151	MACROD1
0133315	1.3564606	7	5	7	
ENSG0000	-	3.5920383	0.0154767	0.0513151	DDB2
0134574	0.8215524	4	7	7	
ENSG0000	0.4679495	5.0730463	0.0154699	0.0513151	NADSYN1
0172890	3		8	7	
ENSG0000	0.9412358	5.8226535	0.0154719	0.0513151	KLF6
0067082	5	3	9	7	
ENSG0000	0.4940781	7.9430364	0.0155108	0.0514103	EFEMP2
0172638	9	3	5		
ENSG0000	1.0544614	5.9089228	0.0155503	0.0515234	FBXO32
0156804	9	4	8	6	
ENSG0000	-	6.0739813	0.0155729	0.0515802	BTBD10
0148925	0.3302072	7	2	3	
ENSG0000	-	5.2730060	0.0155791	0.0515829	COP1
0143207	0.3751476	7	4	6	
ENSG0000	-	6.7657546	0.0155996	0.0516328	BTBD6
0184887	0.3356799	8	3	7	
ENSG0000	0.7079260	5.4440952	0.0156094	0.0516475	HDAC4
0068024	3	8	7	4	
ENSG0000	1.6305630	6.4104902	0.0156500	0.0517637	PDE4B
0184588	9		1	6	
ENSG0000	-	3.6092966	0.0156696	0.0517928	CLCN5
0171365	0.9988089	5	5	2	
ENSG0000	0.6650700	4.8431267	0.0156686	0.0517928	PRDM8
0152784	2	3	1	2	
ENSG0000	0.8718462	3.4304799	0.0156767	0.0517982	IER2
0160888	7	6	3	9	
ENSG0000	0.5791574	4.50466	0.0157181	0.0519131	FAM126B
0155744	2		3	4	
ENSG0000	1.5711801	11.384159	0.0157223	0.0519131	DCN
0011465	7	1	6	4	
ENSG0000	-	6.2514248	0.0157325	0.0519287	ITGA6
0091409	1.2572797	8	2	4	
ENSG0000	-	7.6345793	0.0157774	0.0520590	ATG9A
0198925	0.3593055	9	6	9	

ENSG0000	-	2.0893087	0.0157993	0.0521131	DBP
0105516	1.8159105	7	1	5	
ENSG0000	-	4.6421732	0.0158616	0.0523008	CEP250
0126001	0.5386036	9	8	1	
ENSG0000	0.5049308	3.5589238	0.01589	0.0523761	RSBN1L
0187257	1	2		3	
ENSG0000	-	5.5274032	0.0159016	0.0523962	ARL4C
0188042	0.9452103	9		7	
ENSG0000	-	6.3347794	0.0159474	0.0525293	MYO19
0278259	0.6465027	4	8	1	
ENSG0000	-	3.5317527	0.0160365	0.0527861	ZNF584
0171574	0.7216722	3	2	9	
ENSG0000	-	7.3214812	0.0160341	0.0527861	COL12A1
0111799	1.3389372	3	3	9	
ENSG0000	1.0675934	1.0740968	0.0160905	0.0529276	NAGS
0161653	9	7	9	8	
ENSG0000	-	6.8600411	0.0161305	0.0530407	NDUFA10
0130414	0.2224628	4	3	8	
ENSG0000	-	5.8558290	0.0161684	0.0531471	RPL30
0156482	0.3312891	1	5	6	
ENSG0000	0.6846857	5.7857274	0.0162290	0.0533281	CAPN1
0014216	1		9	6	
ENSG0000	-	2.6014228	0.0162841	0.0534905	CSE1L
0124207	1.1628991	6	1	2	
ENSG0000	-	0.9798025	0.0163075	0.0535491	C20orf96
0196476	3.0927292	2	6	5	
ENSG0000	-	2.0946687	0.0163654	0.0537206	ZNF519
0175322	1.3646487	5	1	4	
ENSG0000	-	3.5139885	0.0164517	0.0539297	NDUFAF5
0101247	0.6634233	9		2	
ENSG0000	-	4.4546235	0.0164492	0.0539297	ZNF286A
0187607	0.6492678	6	5	2	
ENSG0000	0.6157721	6.3464388	0.0164422	0.0539297	ANXA4
0196975	7	4		2	
ENSG0000	-	6.6838732	0.0164509	0.0539297	CYCS
0172115	0.5620007	5	7	2	
ENSG0000	4.5717627	-	0.0164633	0.0539492	STYX
0198252	1	1.2491936	1	8	
ENSG0000	0.9342837	0.8489118	0.0164997	0.0540501	LRRFIP1P1
0240429	7	9	5	3	
ENSG0000	-0.692477	5.1213134	0.0165168	0.0540875	AMOTL1
0166025			4	4	
ENSG0000	-	2.2859330	0.0165250	0.0540959	PCDHGA1
0253159	2.5609076	9	6	2 2	

ENSG0000	1.4712765	3.1763450	0.0165494	0.0541449	UBE2O
0175931	1	3	1	2	
ENSG0000	0.6073091	2.7302997	0.0165570	0.0541449	AKAP7
0118507	8	2	4	2	
ENSG0000	-	6.6946494	0.0165548	0.0541449	DLG1
0075711	0.3714238			2	
ENSG0000	1.9625748	0.6870819	0.0166635	0.0544187	WASH4P
0234769	3	1	8	8	
ENSG0000	0.6039913	3.7312152	0.0166494	0.0544187	COLGALT1
0130309	1	5	5	8	
ENSG0000	-	5.2647508	0.0166581	0.0544187	KCTD20
0112078	1.1950777	6	8	8	
ENSG0000	-	6.8997167	0.0166584	0.0544187	PRUNE2
0106772	1.4171325	8	7	8	
ENSG0000	1.2469073	4.6579068	0.0167537	0.0546946	CEMIP2
0135048	5	4	7	3	
ENSG0000	-	2.4821124	0.0168183	0.0548761	CTNNAL1
0119326	3.3222784	7	2	1	
ENSG0000	-	6.2130827	0.0168208	0.0548761	IDH3A
0166411	0.2764629	1	6	1	
ENSG0000	-	2.3119325	0.0169103	0.0551493	AMD1
0123505	1.9484665	9	9	5	
ENSG0000	0.4493880	7.0845105	0.0169592	0.0552708	HSPA4
0170606	7	6			
ENSG0000	0.2944534	7.6356199	0.0169558	0.0552708	FKBP8
0105701	8	4	7		
ENSG0000	-	3.6204177	0.0169894	0.0553505	ATP1A3
0105409	2.1439523	8	7	4	
ENSG0000	0.7776691	3.0272323	0.0170128	0.0554077	BLVRA
0106605	1	8	4	8	
ENSG0000	-	9.1935957	0.0170211	0.0554158	SEPTIN11
0138758	0.7853912	5	3	7	
ENSG0000	-	0.9797474	0.0170310	0.0554292	IGSF9B
0080854	3.0781561	2	4	4	
ENSG0000	0.5146659	5.6087663	0.0170752	0.0555540	NXF1
0162231	5	3	1	7	
ENSG0000	5.8191495	-	0.0170974	0.0556076	ELF3
0163435	3	0.0106208	9	2	
ENSG0000	-	4.8220535	0.0171136	0.0556413	HDDC2
0111906	0.4926776	9	8	1	
ENSG0000	-	1.9375895	0.0172305	0.0560021	ZNF30
0168661	0.7958516	7	4	7	
ENSG0000	0.6079543	3.8872287	0.017275	0.0561275	AKAP8L
0011243		2		8	

ENSG0000	1.0408136	3.0525508	0.0172887	0.0561530	LZTFL1
0163818	2	7	1	3	
ENSG0000	-	5.5560363	0.0173012	0.0561746	PGRMC2
0164040	0.5297776	4	6	7	
ENSG0000	0.4579772	3.2116086	0.0173241	0.0562154	RNF181
0168894	6	1	8	7	
ENSG0000	0.7034032	5.2825016	0.0173297	0.0562154	TNKS1BP1
0149115	7	5	3	7	
ENSG0000	-	5.3626095	0.0173314	0.0562154	SLBP
0163950	0.4230337		8	7	
ENSG0000	-	2.7775724	0.0173408	0.0562266	TK1
0167900	3.0230359	9			
ENSG0000	0.8462728	3.2369431	0.0173543	0.0562513	KLC4
0137171	1	4	3	7	
ENSG0000	-	6.6991023	0.0174211	0.0564488	CCNYL1
0163249	0.4952746		6	1	
ENSG0000	-	4.2347191	0.0174392	0.0564883	ZNF445
0185219	0.4228096	6	7	4	
ENSG0000	0.2480386	6.5261035	0.0174569	0.0565263	ARHGEF7
0102606		2	4	9	
ENSG0000	0.2355153	5.9412850	0.0175028	0.0566559	RYBP
0163602	2	6	8	4	
ENSG0000	-	4.0034560	0.0176060	0.0569704	ZNF512
0243943	0.6791782	8	2	9	
ENSG0000	-1.097679	2.3374413	0.0176299	0.0570093	PANK1
0152782		7	8	7	
ENSG0000	-	5.1621904	0.0176287	0.0570093	HYI
0178922	0.6247703	2	5	7	
ENSG0000	2.1624835	2.8864737	0.0176444	0.0570174	AKIRIN1
0174574	8		3	7	
ENSG0000	1.1747178	4.7757248	0.0176426	0.0570174	HIVEP2
0010818	6	9	5	7	
ENSG0000	-	2.2801128	0.0176557	0.0570260	FAM185A
0222011	0.6992371	8	5	7	
ENSG0000	-	4.2975141	0.0176590	0.0570260	SCRN3
0144306	0.4977012		3	7	
ENSG0000	0.4180910	4.5737677	0.0176934	0.0571177	BRI3
0164713	4	4	1	8	
ENSG0000	-	4.5160598	0.0177302	0.0572172	USP21
0143258	0.4730069	8	2	5	
ENSG0000	0.2341825	5.4872837	0.0177451	0.0572461	ZKSCAN5
0196652	1	2	7	7	
ENSG0000	1.9548991	1.0840392	0.0178026	0.0574122	NOC2LP1
0213225	9	4	7	4	

ENSG0000	0.6206621	3.1942445	0.0178137	0.0574286	NUDT18
0275074	6	6	7	7	
ENSG0000	1.1046940	2.0652555	0.0178225	0.0574376	HDAC1
0116478	6	6	8	8	
ENSG0000	-	3.994492	0.0178360	0.0574422	TMEM175
0127419	1.0382354		2	1	
ENSG0000	-	4.1863662	0.0178330	0.0574422	HDDC3
0184508	0.4236912	8	1	1	
ENSG0000	-	6.3232581	0.0178697	0.0575313	KPNA1
0114030	0.4348275	7	3	6	
ENSG0000	-0.513749	4.9796447	0.0178861	0.0575649	NOL11
0130935		9	8	1	
ENSG0000	0.7675807	5.7720718	0.0179181	0.0576483	BACE2
0182240	1		3	2	
ENSG0000	0.8379590	4.2242417	0.0179260	0.0576542	SCAMP4
0227500	1	5	1	6	
ENSG0000	-	3.1328091	0.0179348	0.0576632	STON1
0243244	1.1586421	1	4	2	
ENSG0000	-	4.3598228	0.0180236	0.0579209	MAP7D3
0129680	0.8473321	9	6	9	
ENSG0000	-	4.4804695	0.0180271	0.0579209	MTSS1
0170873	0.8168823		4	9	
ENSG0000	-	4.3963672	0.0180520	0.0579816	AEBP2
0139154	0.4549202	8	9	4	
ENSG0000	1.0321530	3.4103490	0.0180661	0.0580072	MAMDC4
0177943	3	1	4	4	
ENSG0000	-	9.2714927	0.0180736	0.0580119	PCBP2
0197111	0.2139184	1	6		
ENSG0000	0.4469311	4.8891919	0.0180918	0.0580311	CCNT2
0082258	3	4			
ENSG0000	-	6.3151765	0.0180883	0.0580311	TCTA
0145022	0.5312561	8	2		
ENSG0000	0.5751795	4.3512891	0.0181147	0.0580852	PHACTR4
0204138	3	9	7	6	
ENSG0000	-	3.5295216	0.0181221	0.0580892	GLCE
0138604	1.4543926	9		8	
ENSG0000	0.9214383	2.8493507	0.0182507	0.0584818	CHSY1
0131873		8		6	
ENSG0000	-	5.7967171	0.0182674	0.0585158	CKB
0166165	0.8441037	4	3	4	
ENSG0000	-	2.7681378	0.0183097	0.0586318	LRP11
0120256	0.8035986	9	8	1	
ENSG0000	1.0190279	3.4024164	0.0183468	0.0587307	SMYD2
0143499	8	9	1	1	

ENSG0000	0.6359751	3.0763998	0.0183598	0.0587528	RMDN3
0137824	6	1	8	5	
ENSG0000	-	2.3684339	0.0183719	0.0587719	DTD2
0129480	0.6284989	7	9		
ENSG0000	0.3529842	6.4098576	0.0184204	0.0589070	ATF7IP
0171681		2		2	
ENSG0000	-	3.2701847	0.0184631	0.0590239	SETD6
0103037	0.7774542	6	5	9	
ENSG0000	0.5708186	3.8673882	0.0185298	0.0592173	VILL
0136059	9		3	1	
ENSG0000	0.5340653	7.4818271	0.0185493	0.0592599	WBP1L
0166272	7	4	8	7	
ENSG0000	0.6089725	4.8711701	0.0185874	0.0593616	DGKH
0102780	8		2	4	
ENSG0000	-	4.2412503	0.0185949	0.0593658	KLHL13
0003096	2.8468022	4	7	7	
ENSG0000	-	4.9982486	0.0187093	0.0597112	NDUFA5
0128609	0.3801063	2	9	1	
ENSG0000	-	4.3395707	0.0187605	0.0598545	FDFT1
0079459	0.5803923	8	8	9	
ENSG0000	-	2.7742432	0.0187760	0.0598640	UNK
0132478	0.6586128	6	7	1	
ENSG0000	-0.287462	7.8949498	0.0187744	0.0598640	SNRPD2
0125743		3	2	1	
ENSG0000	0.4495409	8.9695514	0.0187975	0.0599125	KIRREL1
0183853		2	8	7	
ENSG0000	4.6729023	1.5872235	0.0188177	0.0599568	CLIC6
0159212	2	4	5	4	
ENSG0000	-	6.4621424	0.0189262	0.0602823	BAD
0002330	0.2607029	9	3	7	
ENSG0000	1.4648614	2.3301481	0.0189359	0.0602836	CLUHP3
0131797	8	1	2	3	
ENSG0000	-	5.4511488	0.0189392	0.0602836	GLT8D2
0120820	0.4959175		5	3	
ENSG0000	1.5135542	1.5222763	0.0189604	0.0603309	STARD9
0159433	1	6	3	4	
ENSG0000	-0.863089	3.3701537	0.0190816	0.0606762	HACD1
0165996		7	5		
ENSG0000	-	6.3339384	0.0190788	0.0606762	PRSS23
0150687	1.2013131	6			
ENSG0000	1.2085189	2.7628155	0.0190947	0.0606827	AGTR1
0144891	3	7	6	3	
ENSG0000	0.3522351	4.2635793	0.0190964	0.0606827	THTPA
0259431	9	6	1	3	

ENSG0000	-	2.9314070	0.0191183	0.0607120	RFWD3
0168411	1.7693855	8	4	2	
ENSG0000	-	2.6683442	0.0191148	0.0607120	PMS2P6
0174384	0.6360282	7	5	2	
ENSG0000	-	7.1981778	0.0191340	0.0607417	OAZ2
0180304	0.2380375	1	5	2	
ENSG0000	0.8937012	2.6887814	0.0191841	0.0608806	CCDC24
0159214	3	2	9	5	
ENSG0000	0.4655155	7.4851450	0.0191966	0.0608999	ZSWIM8
0214655	1	8	5	3	
ENSG0000	-	3.0851412	0.0192264	0.0609539	IL11RA
0137070	1.0345361	2	3		
ENSG0000	0.7117957	3.5986021	0.0192215	0.0609539	EHBP1L1
0173442		9	6		
ENSG0000	-	5.0503442	0.0192363	0.0609650	RPS6KA4
0162302	0.9221268	1	3	6	
ENSG0000	1.8961273	1.6105332	0.0192468	0.0609781	SMCO4
0166002	4	5	4	3	
ENSG0000	-	9.7697089	0.0193463	0.0612732	LMO7
0136153	0.5582845	7	9	1	
ENSG0000	-	4.2144553	0.0194287	0.0615137	FERMT1
0101311	0.8848925	4	9	7	
ENSG0000	-	5.9756319	0.0194636	0.0616037	FAM219B
0178761	0.3448058	6	6	6	
ENSG0000	0.3468015	5.5910824	0.0195699	0.0619194	LYRM4
0214113	7	1		7	
ENSG0000	0.5770254	5.3202927	0.0196183	0.0620521	DNAJC5
0101152	9	7	4	9	
ENSG0000	0.3873263	7.8180459	0.0196267	0.0620582	RBMS1
0153250	5	3	7	8	
ENSG0000	-	3.5787776	0.0196486	0.0621068	STEAP4
0127954	1.3737962	2	2		
ENSG0000	-0.221737	5.6379825	0.0196591	0.0621196	PARG
0227345		8	9	6	
ENSG0000	-	1.5169916	0.0197335	0.0623316	VWA8
0102763	1.9488408	2	7	2	
ENSG0000	0.9583668	1.4503016	0.0197393	0.0623316	CSTB
0160213	4	8	2	2	
ENSG0000	-	2.9585533	0.0198140	0.0625467	CEP70
0114107	0.7057703		2	9	
ENSG0000	-	5.3038527	0.0198278	0.0625697	IL13RA2
0123496	1.4735725	5	4	4	
ENSG0000	0.3870524	6.7875366	0.0198412	0.0625915	SLC35A4
0176087	6		9	1	

ENSG0000	0.5104818	6.1981320	0.0198850	0.0627088	TIPARP
0163659	3	7	4	2	
ENSG0000	-	2.3434121	0.0199031	0.0627244	ANP32E
0143401	2.2539657	2	5	7	
ENSG0000	-	3.8498143	0.0199022	0.0627244	NTHL1
0065057	0.5790458	1	8	7	
ENSG0000	1.2561577	0.6419007	0.0199167	0.0627466	PGAM1
0171314	8	6	4		
ENSG0000	-	3.4180350	0.0199298	0.0627671	ANK1
0029534	3.1222715	6	2	1	
ENSG0000	1.7130675	11.391960	0.0199849	0.0628993	FTH1
0167996	7	4	8	3	
ENSG0000	0.2395865	7.8502612	0.0199815	0.0628993	RAB5B
0111540	5	3	1	3	
ENSG0000	-	2.0452577	0.0200444	0.0630657	PCDHGA5
0253485	1.4495932	7	5	3	
ENSG0000	1.1324777	5.5482865	0.0200600	0.0630940	DAAM1
0100592	8	4	7	8	
ENSG0000	-	2.7522029	0.0201102	0.0632101	GADD45A
0116717	2.2320228	3	3	9	
ENSG0000	0.5872815	3.9410634	0.0201040	0.0632101	DHX15
0109606	5	2	6	9	
ENSG0000	-	5.0577518	0.0201292	0.0632491	PILRB
0121716	0.4944192	3	4	3	
ENSG0000	0.5124525	2.8885492	0.0201726	0.0633645	ZDHHC12
0160446	5	7	2	8	
ENSG0000	0.2975122	4.9990625	0.0202531	0.0635965	STYXL1
0127952	8	3	4	9	
ENSG0000	-	1.6997631	0.0202944	0.0636843	MED20
0124641	1.2184889	2	1		
ENSG0000	-	6.8903965	0.0202931	0.0636843	SCOC
0153130	0.2656445	9	1		
ENSG0000	0.5865189	2.9465053	0.0203351	0.0637910	ZNF772
0197128	7	6	2	7	
ENSG0000	0.6373530	9.1519493	0.0203576	0.0638408	UAP1
0117143	8	2	6	3	
ENSG0000	0.3205145	7.0293283	0.0204080	0.0639777	MIDN
0167470	6	1	4	9	
ENSG0000	0.4815158	5.9051774	0.0205224	0.0643151	ARFGAP1
0101199	2	4	8	1	
ENSG0000	-	7.8164067	0.0205291	0.0643151	EIF3D
0100353	0.2978182	4	1	1	
ENSG0000	0.2666070	6.0192938	0.0205553	0.0643760	DNAJA2
0069345	1	6	1	8	

ENSG0000	1.8553929	2.0962975	0.0206923	0.0647627	PLK2
0145632	4	1	5	9	
ENSG0000	0.3986072	5.0368585	0.0206872	0.0647627	PPP4C
0149923		5	3	9	
ENSG0000	-	1.5552616	0.0207265	0.0648485	ALDH4A1
0159423	3.1192315	8	3		
ENSG0000	-	8.9050629	0.0207380	0.0648633	CCT5
0150753	0.4858947	5	8	8	
ENSG0000	-	4.4811173	0.0207998	0.0650354	PHETA1
0198324	0.4329207	7	9		
ENSG0000	-	6.2351499	0.0208097	0.0650448	LY6K
0160886	1.6153069	9			
ENSG0000	1.3628451	1.2824706	0.0208240	0.0650491	ORA13
0175938	7		3	5	
ENSG0000	0.3543470	6.7259180	0.0208247	0.0650491	RNF10
0022840	6	2	2	5	
ENSG0000	0.3878637	5.6637890	0.0208921	0.0652385	TMCO4
0162542	6	6	9	6	
ENSG0000	-	2.2730988	0.0209307	0.0653376	SPRY2
0136158	1.2897246	6	5	2	
ENSG0000	4.8416687	-	0.0210189	0.0655915	SERPINB2
0197632	7	1.0349038	8	9	
ENSG0000	0.2599518	6.5861945	0.0210294	0.0656029	GOSR1
0108587	3	5	9	5	
ENSG0000	0.3804253	5.9832164	0.0210535	0.0656566	RHBDD1
0144468	4	4	9	7	
ENSG0000	0.2190857	6.2071752	0.0210611	0.0656588	PANK2
0125779	9	6	6	3	
ENSG0000	3.7134579	1.5323011	0.0210917	0.0657113	PTGS2
0073756	1	3	6	3	
ENSG0000	0.3067157	7.0671755	0.0210858	0.0657113	WAC
0095787	4	6	5	3	
ENSG0000	-	7.5015665	0.0211128	0.0657556	MEGF6
0162591	0.5740367	1	8	8	
ENSG0000	0.3519198	6.5184816	0.0211738	0.0659239	ARID1A
0117713	7	7	3	8	
ENSG0000	1.5847507	5.2017407	0.0211852	0.0659381	SLC9A3R2
0065054	2	2	6		
ENSG0000	-	5.8061618	0.0212227	0.0660158	BMPR1A
0107779	0.4398453	3	4	7	
ENSG0000	-0.745541	6.8650695	0.0212240	0.0660158	ADAMTSL1
0178031		4	8	7	
ENSG0000	1.3222549	3.3992575	0.0212464	0.0660638	DHX9
0135829	9	6	2	6	

ENSG0000	-	8.4173655	0.0212744	0.0661296	MLF2
0089693	0.2537257	9	9		
ENSG0000	0.3948727	5.1389574	0.0212959	0.0661748	RIMKLB
0166532	3	1	8	5	
ENSG0000	0.8004143	3.2961070	0.0213297	0.0662581	RABEP2
0177548	4	2	2	5	
ENSG0000	-	4.2045371	0.0213585	0.0662936	GPAT2
0186281	1.3472292	3	6	8	
ENSG0000	0.2848042	6.4954556	0.0213538	0.0662936	GON4L
0116580	7	8	8	8	
ENSG0000	-	9.6301369	0.0213619	0.0662936	ACAN
0157766	1.4685807	2	9	8	
ENSG0000	1.0415601	3.2107282	0.0213841	0.0663408	TEAD4
0197905	6	6	3	3	
ENSG0000	-	4.1371038	0.0213993	0.0663663	PDE12
0174840	0.4113219	3	1	5	
ENSG0000	0.9401103	8.0081392	0.0214094	0.0663763	ITM2B
0136156	4	6	7	1	
ENSG0000	0.5945387	5.6721369	0.0214351	0.0664342	TNRC6B
0100354	5	1		1	
ENSG0000	-	1.9701423	0.0214432	0.0664380	GSTCD
0138780	2.3203748	8	9	1	
ENSG0000	-	3.1730976	0.0214852	0.0665464	HAUS2
0137814	0.9863791		5	3	
ENSG0000	0.3273661	5.9320407	0.0215048	0.0665855	TTC7A
0068724	4	9	4	1	
ENSG0000	0.3324186	5.2904771	0.0215408	0.0666754	SNX11
0002919	4	2	7	7	
ENSG0000	-	3.7563844	0.0215523	0.0666893	C2CD2
0157617	0.7950851	6	3		
ENSG0000	0.5671565	5.5265632	0.0215769	0.0667437	BCL2L1
0171552	4	5			
ENSG0000	1.4864688	0.8805962	0.0215977	0.0667650	GCNT4
0176928	4	7	7	1	
ENSG0000	-	2.1069203	0.0215965	0.0667650	STRBP
0165209	1.9053015		5	1	
ENSG0000	-0.85167	2.8291667	0.0216580	0.0669296	ARHGAP10
0071205		2	5	8	
ENSG0000	-	6.7847210	0.021778	0.0672785	MAP3K7
0135341	0.2696358	6		9	
ENSG0000	-	5.5761733	0.0218155	0.0673727	MRPL34
0130312	0.3479654	4	2		
ENSG0000	-	5.3714281	0.0218285	0.0673912	OSBPL10
0144645	0.8841582	8	8	5	

ENSG0000	-	4.32839	0.0218731	0.0675068	LIG3
0005156	0.7507808		1	8	
ENSG0000	-	1.6625134	0.0218890	0.0675152	SLC45A1
0162426	1.0735886	1	8	3	
ENSG0000	-0.371416	7.1185914	0.0218899	0.0675152	SET
0119335		7	5	3	
ENSG0000	-	2.4247386	0.0219137	0.0675450	MRPS31P5
0243406	0.6306887	7	8	9	
ENSG0000	-	8.4967771	0.0219085	0.0675450	GPX4
0167468	0.5106197	4	8	9	
ENSG0000	0.6544281	2.8371516	0.0219324	0.0675591	H2AW
0181218	2	9	8	3	
ENSG0000	-	5.1343220	0.0219289	0.0675591	ADAT1
0065457	0.3555694	4		3	
ENSG0000	1.3677934	1.8853580	0.0219564	0.0675970	RASSF4
0107551	7	3		5	
ENSG0000	-	4.7420668	0.0219589	0.0675970	POLR2D
0144231	0.5248485	2	5	5	
ENSG0000	-	2.2264574	0.0219697	0.0676085	CDK5
0164885	0.8434003	5	8	8	
ENSG0000	-	3.6199567	0.0220639	0.0678763	LRRC28
0168904	0.5229292	4	1	8	
ENSG0000	1.2651005	1.6797913	0.0220871	0.0679259	RIPK3
0129465	1	8	2		
ENSG0000	-	3.3459646	0.0221111	0.0679777	WDR62
0075702	1.2611763	5		6	
ENSG0000	-	4.1032472	0.0221638	0.0681179	METTL2A
0087995	0.3588557	6	4	7	
ENSG0000	0.2538157	5.0978895	0.0222247	0.0682832	AP5S1
0125843	8	2	8	9	
ENSG0000	-	4.0742129	0.0222776	0.0684237	POLE4
0115350	0.5968058	6	8	8	
ENSG0000	-	2.3348839	0.0223966	0.0687670	ACTR3B
0133627	1.5062932	1	3	2	
ENSG0000	0.9155223	1.8985738	0.0224233	0.0688270	RICTOR
0164327	8	8	8	3	
ENSG0000	0.6119999	6.7549024	0.0224587	0.0689135	RNF13
0082996		2	9	4	
ENSG0000	0.5482829	3.0890840	0.0225355	0.0691269	FBXW4
0107829	5	5	7	3	
ENSG0000	1.0282842	2.0269356	0.0225603	0.0691807	HADHB
0138029	2	9	5	2	
ENSG0000	-	5.8304565	0.0225742	0.0692009	C16orf72
0182831	0.3626798	1		6	

ENSG0000	1.6431632	4.1005412	0.0226091	0.0692858	INHBA
0122641	1	2	5	7	
ENSG0000	-	6.1379757	0.0226283	0.0693224	TSN
0211460	0.4094641	9	3		
ENSG0000	-	5.8535694	0.0226380	0.0693299	C2CD5
0111731	0.3197944	7	5	5	
ENSG0000	-	1.6002378	0.0226779	0.0694299	OLFML2A
0185585	2.7782386	5	9	8	
ENSG0000	0.4706383	4.2585129	0.0226894	0.0694426	IRGQ
0167378	7			5	
ENSG0000	-	4.9992011	0.0227185	0.0695097	DGKI
0157680	1.0002797		9		
ENSG0000	-	5.9237534	0.0227334	0.0695328	MEX3D
0181588	0.2815174	9	4	7	
ENSG0000	-	4.2901434	0.0227455	0.0695476	HTATSF1
0102241	0.6982067	9	4	1	
ENSG0000	-	2.6669008	0.0228027	0.0697001	NT5DC1
0178425	0.6442527	2	3	6	
ENSG0000	-	10.992691	0.0228657	0.0698704	RPL8
0161016	0.3115953	4	6	3	
ENSG0000	-	2.4624571	0.0229906	0.0702296	VSIG10
0176834	0.5977487	2	6	2	
ENSG0000	1.7216158	4.1829103	0.0230113	0.0702545	PRR12
0126464	9	4	6		
ENSG0000	0.9129382	7.9488561	0.0230135	0.0702545	RALGPS2
0116191	5	7	2		
ENSG0000	0.3690696	4.0053943	0.0230762	0.0704235	COQ4
0167113	5	3	6	1	
ENSG0000	-	6.4972296	0.0230953	0.0704592	RBM12
0244462	0.4306113	5	4	4	
ENSG0000	0.7613402	3.2265639	0.0231034	0.0704614	EMP2
0213853	1	3	5	8	
ENSG0000	1.9090830	3.9277675	0.0231232	0.0704992	PEDS1-
0124208	6	2	1	1	UBE2V1
ENSG0000	0.5702930	8.1471381	0.0231323	0.0705045	GLUL
0135821	5	4	3	1	
ENSG0000	-	3.1257245	0.0231673	0.0705662	RAB4A
0168118	1.1253496	8	5	1	
ENSG0000	-	7.2936849	0.0231608	0.0705662	PTPRM
0173482	0.5695024	6	8	1	
ENSG0000	-0.629382	3.5441422	0.0231859	0.0706003	SNRPE
0182004		2	5	2	
ENSG0000	-	4.8492926	0.0232015	0.0706252	TMEM245
0106771	0.4399756	3	1		

ENSG0000	-	6.4076373	0.0232119	0.0706343	CRYAB
0109846	2.5352772	3	1	4	
ENSG0000	-	4.3513889	0.0232712	0.0707923	SLC38A6
0139974	0.5286512	4	5	3	
ENSG0000	-	2.5663344	0.0233073	0.0708795	CEP112
0154240	1.7806153	9	4	4	
ENSG0000	-	2.8233563	0.0233383	0.0709512	TYW3
0162623	1.5517746	6	6	8	
ENSG0000	-	6.2119689	0.0233637	0.0710057	DIDO1
0101191	0.5070052	6		1	
ENSG0000	0.5404023	3.3901650	0.0233876	0.0710436	RAB5C
0108774	7	1	2	6	
ENSG0000	1.0824889	4.5853447	0.0233985	0.0710436	S100A16
0188643	4	2	1	6	
ENSG0000	0.4700798	5.9812419	0.0233915	0.0710436	PPP2R5E
0154001	8	4	3	6	
ENSG0000	-	4.2769797	0.0234604	0.0711864	POLR2J3
0285437	0.6480699	4	5	8	
ENSG0000	-0.283627	8.6078953	0.0234531	0.0711864	TPD52L2
0101150		7	1	8	
ENSG0000	-	5.7344424	0.0235493	0.0714201	SNRPF
0139343	0.3764607	9	3	4	
ENSG0000	-	6.6639258	0.0235524	0.0714201	TBC1D14
0132405	0.3754963	4	2	4	
ENSG0000	-	0.1497581	0.0235760	0.0714690	FANCE
0112039	3.3928826	4	4	8	
ENSG0000	1.3897454	0.9481961	0.0235931	0.0714982	LY96
0154589	6	4	5	5	
ENSG0000	0.2892120	6.3229050	0.0236718	0.0717140	TFIP11
0100109	8	2	7	5	
ENSG0000	-	2.8708785	0.0237117	0.0718121	KIAA1614
0135835	0.7420772	2	8	7	
ENSG0000	-	4.8315771	0.0237422	0.0718816	LIN54
0189308	0.4630696		5	7	
ENSG0000	1.8088917	2.1700359	0.0237662	0.0719315	ICAM2
0108622		3	5		
ENSG0000	0.6131038	3.1060017	0.023864	0.0721866	PIGA
0165195	3	8			
ENSG0000	-	4.0541989	0.0238656	0.0721866	XPOT
0184575	1.3574379	8	5		
ENSG0000	-	2.8148045	0.0238838	0.0721957	PPP5C
0011485	0.8855136	4		7	
ENSG0000	-	5.6437601	0.0238819	0.0721957	ASH2L
0129691	0.5327477	2	9	7	

ENSG0000	-	2.9027588	0.0239279	0.0723061	ERLIN2
0147475	0.8206368	7		8	
ENSG0000	1.2725396	2.5273703	0.0239764	0.0724299	PAPOLG
0115421	9	5	5	5	
ENSG0000	0.7907058	10.012692	0.0240114	0.0725128	MMP2
0087245	8	9	9	8	
ENSG0000	-	4.8841766	0.0240455	0.0725927	DOK4
0125170	0.5078353	5	4	4	
ENSG0000	0.8477570	2.9375923	0.0240645	0.0726271	DCBLD1
0164465	9	7	5	9	
ENSG0000	3.6035772	1.8586077	0.0240897	0.0726723	CPM
0135678	9	1	1	4	
ENSG0000	-	5.7306430	0.0240947	0.0726723	JAG1
0101384	1.0266658	8	3	4	
ENSG0000	-	4.3223453	0.0241263	0.0727448	ZNF37BP
0234420	0.5574511		9	5	
ENSG0000	0.8626668	1.4439698	0.0241568	0.0727907	ZFAND2A
0178381	5	8	6	3	
ENSG0000	-	2.8220206	0.0241521	0.0727907	MCRIP2
0172366	0.7493737		4	3	
ENSG0000	-	4.6780717	0.0241740	0.0728194	SNPH
0101298	0.6286925	9	2	7	
ENSG0000	-	5.0908845	0.0241820	0.0728207	ETF1
0120705	0.7783415	8	8	9	
ENSG0000	0.2096309	7.1692199	0.0242952	0.0731384	G6PC3
0141349	6	3	4	8	
ENSG0000	1.1210438	2.3538159	0.0243483	0.0732752	TMEM62
0137842	9	9	6	9	
ENSG0000	6.1948937	1.3795837	0.0243589	0.0732839	SLC2A5
0142583	4	1	2	6	
ENSG0000	0.5481042	6.3856339	0.0244161	0.0734330	NPIP5
0243716	3	6	6	5	
ENSG0000	-	4.6508766	0.0244357	0.0734477	NUBP2
0095906	0.5549163	3	1	8	
ENSG0000	0.3662518	7.2954249	0.0244364	0.0734477	C11orf68
0175573	3		4	8	
ENSG0000	0.5968449	5.5346061	0.0245227	0.073684	MYADM
0179820		8	5		
ENSG0000	-	4.4639609	0.0245332	0.0736922	FPGT
0254685	0.5134608	6	1	4	
ENSG0000	-	7.2684623	0.0245488	0.0737159	CPSF7
0149532	0.2298042	8	4	9	
ENSG0000	0.9253662	5.0084043	0.0246026	0.0738544	POGZ
0143442	9	7	7	1	

ENSG0000	-	2.6283724	0.0246352	0.0739242	RBM14-
0248643	1.2790411	5	9	6	RBM4
ENSG0000	-	6.7750254	0.0246414	0.0739242	NTM
0182667	0.6506978	8	2	6	
ENSG0000	-	6.0238391	0.0246591	0.0739541	HYAL2
0068001	0.3698944	4	3	6	
ENSG0000	-	4.7707499	0.0247325	0.0741315	SNRPD1
0167088	0.4352137	1		8	
ENSG0000	-	7.2782936	0.0247338	0.0741315	PBRM1
0163939	0.3975195	3	2	8	
ENSG0000	0.3390263	6.7519754	0.0247760	0.0742348	UBE2K
0078140	7	2	4	2	
ENSG0000	-	9.7324078	0.0247886	0.0742493	SEPTIN9
0184640	0.3902465	3	6	3	
ENSG0000	0.5071156	3.4574108	0.0248491	0.0744071	SPACA6
0182310	5	2	3	3	
ENSG0000	-	7.9176504	0.0248995	0.0745347	EIF4A2
0156976	0.2934587	6	4		
ENSG0000	0.3054060	4.1162434	0.0249498	0.0746620	FBXL4
0112234	9	3	9	1	
ENSG0000	-	2.7779381	0.0249882	0.0747534	SH3BGR
0185437	0.9011069	5	8	6	
ENSG0000	-	6.1988796	0.0250429	0.0748936	TAF1
0147133	0.3045518	9	7	1	
ENSG0000	-	3.8963670	0.0250630	0.0749302	STUB1
0103266	0.5955156	5	7	5	
ENSG0000	-	2.4871730	0.025121	0.0750799	ZMAT3
0172667	1.0786363	7		5	
ENSG0000	-	1.7815589	0.0251659	0.0751907	TENM3
0218336	1.9350869	3	6	8	
ENSG0000	-	3.0224580	0.0252935	0.0755484	EEF1E1
0124802	0.6194152	7	6		
ENSG0000	0.5303531	4.4702180	0.0253152	0.0755896	MESD
0117899	3	1	8	4	
ENSG0000	0.6506891	5.6276013	0.0253840	0.0757712	FMNL3
0161791	4	7	3		
ENSG0000	-	5.5835456	0.0254364	0.0759038	ENTR1
0165689	0.3694254	1	1	5	
ENSG0000	2.9544009	3.3956285	0.0254801	0.0760106	LIPA
0107798	8	5	5		
ENSG0000	0.6230560	5.8852845	0.0254937	0.0760274	CORO1B
0172725	6	4	6	5	
ENSG0000	-	2.1573391	0.0255310	0.076115	RMND1
0155906	0.8521987	9	9		

ENSG0000	-	2.3681690	0.0255521	0.0761540	FAM83D
0101447	5.9787345	4	5	1	
ENSG0000	-0.509522	3.9021829	0.0255839	0.0761774	SLC25A51
0122696		4	5	6	
ENSG0000	0.3146891	5.9757788	0.0255729	0.0761774	ENTPD5
0187097	1	8	8	6	
ENSG0000	-	8.0199785	0.0255829	0.0761774	FXR1
0114416	0.1543743	7	4	6	
ENSG0000	1.5501291	2.4754648	0.0256035	0.0762121	SCPEP1
0121064	1	9	8	6	
ENSG0000	-	4.7560925	0.0256975	0.0764681	EIF2AK1
0086232	0.4423039	6	9	4	
ENSG0000	0.9990667	1.1427190	0.0258008	0.0767514	MED9
0141026	8	6	3	3	
ENSG0000	0.2476808	7.4147925	0.0259130	0.0770611	AAMP
0127837	6	9	1	4	
ENSG0000	-	2.8128400	0.0259343	0.0770767	MTURN
0180354	0.6370531	5	9	1	
ENSG0000	0.8829296	3.1021453	0.0259294	0.0770767	USP35
0118369			3	1	
ENSG0000	-	2.8617762	0.0260048	0.0772620	LRRC51
0184154	0.8401201		6	9	
ENSG0000	1.9326316	4.3731727	0.0260594	0.0774002	FBXL7
0183580	1	2	7	7	
ENSG0000	0.5035469	3.7283671	0.0260956	0.0774837	NAALADL1
0168060	3	3	7		
ENSG0000	-	3.5280636	0.0261583	0.0776456	DHFR2
0178700	0.5336735	2	5	5	
ENSG0000	-	4.8890493	0.0261939	0.0777272	ZNF33A
0189180	0.4668189	1	7	4	
ENSG0000	0.6277663	2.8756725	0.0262094	0.0777298	LBHD1
0162194	6	1	8	5	
ENSG0000	-	5.5104014	0.0262111	0.0777298	SFPQ
0116560	0.5676693	5	3	5	
ENSG0000	0.4743929	3.5221543	0.0262841	0.0779172	DTNB
0138101	1	1	4	9	
ENSG0000	-	4.6940625	0.0262906	0.0779172	C19orf47
0160392	0.3437996	8	6	9	
ENSG0000	1.4179300	1.4124722	0.0263916	0.0781923	ALPK3
0136383	7	3	7	9	
ENSG0000	1.4891893	4.5174946	0.0264744	0.0783912	S1PR2
0267534	5	1	8	8	
ENSG0000	0.2363671	7.8538180	0.0264752	0.0783912	SRSF11
0116754	6	9	2	8	

ENSG0000	-	4.4472587	0.0264947	0.0784246	KCNC4
0116396	0.7004581	5	2	9	
ENSG0000	-	2.6835163	0.0266086	0.0787374	GSTM2
0213366	1.0166847	4	1	1	
ENSG0000	-	3.5604232	0.0266258	0.0787638	UTP11
0183520	0.5546126	7		7	
ENSG0000	0.3632112	6.4695507	0.0266827	0.0789077	SOX12
0177732	2	6	1	8	
ENSG0000	0.5367113	2.6658793	0.0267130	0.0789729	ZNF433
0197647	8	9	2	6	
ENSG0000	0.4229589	4.7199982	0.0267405	0.0790297	FBXO8
0164117		7		1	
ENSG0000	2.0806241	2.8833912	0.0268078	0.0791796	ANXA8
0265190	3	6	1	5	
ENSG0000	-	3.9742212	0.0268057	0.0791796	TNRC6C
0078687	0.5041659		5	5	
ENSG0000	0.7008389	2.2238580	0.0269077	0.0794502	HDX
0165259	6	7	5	5	
ENSG0000	-	5.4805591	0.0269599	0.0795797	CHEK1
0149554	0.6240568	7	2		
ENSG0000	-	6.4165326	0.0270040	0.0796853	TCERG1
0113649	0.4148966	5	7	7	
ENSG0000	-	5.3972903	0.0270171	0.0796992	NFX1
0086102	0.2950968	2	3	8	
ENSG0000	-	1.6868458	0.0270894	0.0798878	BLM
0197299	3.6626661	5	1	2	
ENSG0000	-0.267212	5.5612574	0.0271057	0.0799114	ZNF706
0120963		1	8	3	
ENSG0000	-	4.7789455	0.0271491	0.0800144	PHKG2
0156873	0.2727082	6	1	7	
ENSG0000	-	1.9366210	0.0271726	0.0800590	SLC27A5
0083807	0.7234603	4	4	9	
ENSG0000	0.3162391	5.5641002	0.0271877	0.0800708	SCNM1
0163156	5	7	1	9	
ENSG0000	-	9.5227066	0.0271934	0.0800708	RPS10
0124614	0.2775141	3	1	9	
ENSG0000	-	5.8157963	0.0272204	0.0801256	SLC30A9
0014824	0.4082664	1	1	7	
ENSG0000	0.8310899	2.4916191	0.0273350	0.0804134	TGIF2
0118707	8	6	1	4	
ENSG0000	-	1.3231027	0.0273886	0.0805464	ACO2
0100412	0.9563829	4	8	9	
ENSG0000	-	4.0351022	0.0273988	0.0805515	MTERF4
0122085	0.6696758	7	2	3	

ENSG0000	0.8757354	2.3034157	0.0274153	0.0805754	CLIP4
0115295	6	6	9	2	
ENSG0000	0.2054187	7.3420002	0.0274624	0.0806887	COX7A2
0112695	8	2		6	
ENSG0000	0.3819465	5.9005338	0.0275638	0.080962	KANSL3
0114982	6	1	8		
ENSG0000	-0.381297	5.8251280	0.0275810	0.0809874	NCDN
0020129		9	3	6	
ENSG0000	-0.498319	3.818462	0.0276020	0.0810242	OARD1
0124596			2		
ENSG0000	-	3.7030383	0.0276231	0.0810613	SRD5A1
0145545	0.6032374		6	3	
ENSG0000	1.2894427	2.6716068	0.0276773	0.0811954	TP53BP2
0143514	4	2	7	7	
ENSG0000	0.6861498	5.5618138	0.0277067	0.0812567	SLC38A5
0017483	2	8	7	3	
ENSG0000	1.0843233	3.5279715	0.0277240	0.0812823	NBN
0104320	7	4	1	4	
ENSG0000	-	3.6092081	0.0278013	0.0814780	MEF2C
0081189	0.8054293	5		9	
ENSG0000	0.7057669	6.0439275	0.0278078	0.0814780	ZBTB20
0181722	2	7	4	9	
ENSG0000	-	1.8201706	0.0278434	0.0815572	POFUT1
0101346	1.3067364	5		5	
ENSG0000	-	2.1342162	0.0278899	0.0816224	PKIA
0171033	1.4870435	5		2	
ENSG0000	-0.430654	5.1779474	0.0278998	0.0816224	MFSD14C
0196312		9	4	2	
ENSG0000	0.5274165	5.4636011	0.0278970	0.0816224	CYP4V2
0145476	4	6	2	2	
ENSG0000	0.2423369	8.4033494	0.0278976	0.0816224	ACIN1
0100813		5	9	2	
ENSG0000	1.5283957	1.2055563	0.027913	0.0816359	MILR1
0271605	3	4		2	
ENSG0000	0.3502385	4.1410652	0.0279955	0.0818338	PCGF1
0115289		3		3	
ENSG0000	-	7.2747307	0.0279978	0.0818338	THY1
0154096	1.2032313	2	1	3	
ENSG0000	-	7.2147386	0.0280618	0.0819957	SEPTIN8
0164402	0.2977108	4	1	9	
ENSG0000	0.8762323	2.0190466	0.0281724	0.0822939	LDHAP4
0214110	2	3	6	3	
ENSG0000	0.3462909	4.6870520	0.0281954	0.0823212	LSM6
0164167	2	4	7	9	

ENSG0000	0.2656168	6.472278	0.0281990	0.0823212	CTTN
0085733	3		7	9	
ENSG0000	-	8.3033754	0.0282674	0.0824955	RPS24
0138326	0.5053562	3	2	8	
ENSG0000	0.7255567	4.9226432	0.0283099	0.0825944	TMEM44
0145014	8	4	5	8	
ENSG0000	1.2854577	1.8359254	0.0283202	0.0825993	ERN1
0178607	6	9	8	7	
ENSG0000	0.6280822	3.2378718	0.0283592	0.0826878	DCUN1D3
0188215	6	5	8	6	
ENSG0000	3.6881923	0.4449637	0.0283880	0.0827464	TGS1
0137574	8	3	4	5	
ENSG0000	-	6.8731103	0.0284339	0.0828548	HNRNPAB
0197451	0.7375527			3	
ENSG0000	0.8276308	4.3520584	0.0285287	0.0831058	ENOSF1
0132199	9	1	6	9	
ENSG0000	0.6127802	5.6882773	0.0286338	0.0833864	ELF4
0102034	4	6	1	7	
ENSG0000	0.6699748	4.5391511	0.0286452	0.0833943	ATG16L2
0168010	8	4	3	1	
ENSG0000	-	6.9240831	0.0286634	0.083422	ANP32A
0140350	0.4841399	2	8		
ENSG0000	-	4.5905177	0.0288261	0.0838698	PTPMT1
0110536	0.3676633	4	5	8	
ENSG0000	0.3487924	5.3683781	0.0289286	0.0841423	KMT2A
0118058	1		2	7	
ENSG0000	-1.485331	2.4881436	0.0289438	0.0841611	NHSL2
0204131		6	9	5	
ENSG0000	-	2.4454238	0.0289580	0.0841767	ERRFI1
0116285	0.9205292	2	8	9	
ENSG0000	-	3.9299349	0.0290017	0.0842780	FEZ1
0149557	0.9609835	9	6	9	
ENSG0000	-	1.4372740	0.0290175	0.0842983	C1orf35
0143793	0.9946319	7	6	6	
ENSG0000	-	3.6608265	0.0291049	0.0845264	TMED3
0166557	0.9473043	7	3	4	
ENSG0000	-	3.6578421	0.0292251	0.0848497	ICA1L
0163596	0.6887975	3	2	1	
ENSG0000	-	6.1362649	0.0292457	0.0848837	MYPN
0138347	0.7935459	7	5	9	
ENSG0000	-	3.1784913	0.0293374	0.0851241	ASTN2
0148219	0.5504683	6	9	9	
ENSG0000	-	3.6045992	0.0293615	0.0851646	LRP6
0070018	0.8048072	5	1	7	

ENSG0000	0.2020578	7.1506977	0.0293692	0.0851646	PI4KB
0143393	3	3	8	7	
ENSG0000	-	4.5667624	0.0294689	0.0854277	UPF1
0005007	0.6845893	2	6	8	
ENSG0000	0.2307068	4.9445491	0.0294981	0.0854865	LAMTOR3
0109270	9		9	7	
ENSG0000	0.3560459	5.8543161	0.0295375	0.0855747	ZMYM2
0121741	5	6	8	3	
ENSG0000	0.4175252	4.6730056	0.0295595	0.0856125	UBXN2A
0173960	6	5	9	2	
ENSG0000	-	5.5365389	0.0295716	0.0856215	POLR2B
0047315	0.4206055	2	8	9	
ENSG0000	0.3435284	4.5201769	0.0296075	0.0856993	THAP3
0041988	9	4	1	4	
ENSG0000	0.6408845	3.9391531	0.0296915	0.0859165	DNAH1
0114841	2	9	5	5	
ENSG0000	-	5.3520484	0.0297393	0.0860288	POLR3E
0058600	0.4280149		5		
ENSG0000	-	1.9433062	0.0297688	0.0860864	HOXC5
0172789	0.7844425	2	2	6	
ENSG0000	-	4.3921142	0.0297773	0.0860864	TMEM80
0177042	0.4475826	1	1	6	
ENSG0000	2.2455201	2.4512901	0.0298684	0.0863238	SOS1
0115904	3	8	6	4	
ENSG0000	0.3958971	7.1783779	0.0298830	0.0863398	VPS13D
0048707			3	1	
ENSG0000	-	4.0684664	0.0300079	0.0866184	MORN2
0188010	0.4451054	3	2	6	
ENSG0000	0.4960624	4.0861793	0.0300058	0.0866184	STX4
0103496			2	6	
ENSG0000	-	4.3710811	0.0300157	0.0866184	HCFC1R1
0103145	0.6157032		6	6	
ENSG0000	-	4.8694398	0.0299911	0.0866184	CNTRL
0119397	0.4889052	7	2	6	
ENSG0000	-	2.2148834	0.0300460	0.0866796	CSKMT
0214756	0.8921738	3	5	8	
ENSG0000	0.7176384	2.5769728	0.0300841	0.0867632	L3HYPDH
0126790	3	9	1	6	
ENSG0000	-0.666267	3.8714061	0.0301127	0.0868196	RHOA
0067560		3	6	6	
ENSG0000	2.7550837	4.5897951	0.0302203	0.0871035	CHI3L1
0133048	3	6	4	4	
ENSG0000	-	3.0145434	0.0302518	0.0871679	TPK1
0196511	0.5785994	3	1	4	

ENSG0000	0.3912186	9.6453108	0.0302879	0.0872457	MYL12B
0118680	1	3	5	4	
ENSG0000	0.6351437	4.3774002	0.0304472	0.0876782	CHTF8
0168802	4	7	7	1	
ENSG0000	-1.865999	1.5624972	0.0305294	0.0878620	ASNSD1
0138381		2	9	1	
ENSG0000	0.3554630	5.0720799	0.0305228	0.0878620	CCDC149
0181982	4	4		1	
ENSG0000	-	3.2684285	0.0305599	0.0879232	ANKRD6
0135299	1.2509524	3	7	2	
ENSG0000	-	2.6320627	0.0306006	0.0880137	TRMT10A
0145331	0.7980462	3	6	7	
ENSG0000	-	0.8120894	0.0306646	0.0881180	PLCXD2
0240891	1.4809535	9	1	6	
ENSG0000	0.3274950	5.1879867	0.0306563	0.0881180	DHX8
0067596	9	2	7	6	
ENSG0000	-	6.5514203	0.0306627	0.0881180	NBPF15
0266338	0.3390459	6	1	6	
ENSG0000	-	3.2616083	0.0307525	0.0883441	PRKCA
0154229	0.8382502	1	4	6	
ENSG0000	-	2.7111376	0.0307623	0.0883457	RIN3
0100599	1.0625529	9	4	3	
ENSG0000	-	3.4309845	0.0308121	0.0884622	MC1R
0258839	0.6350624	1	7	4	
ENSG0000	-	4.2851988	0.0308466	0.0885347	MEIS2
0134138	0.6340425	4	9	3	
ENSG0000	0.3711101	5.9007136	0.0308565	0.0885364	ZNF618
0157657	5		5	3	
ENSG0000	0.2929786	5.6186209	0.0308809	0.0885799	PJA1
0181191	8	1	8	1	
ENSG0000	-	1.2619257	0.0309690	0.0887362	TM9SF2
0125304	1.9513297	9	2	3	
ENSG0000	0.8073139	2.1334728	0.0310231	0.0887362	ETHE1
0105755	4	6	3	3	
ENSG0000	-	3.2744993	0.0310052	0.0887362	FAM86B1
0186523	0.6275194	1	6	3	
ENSG0000	0.8285738	3.5458779	0.0310200	0.0887362	ACCS
0110455	5	9	6	3	
ENSG0000	0.772413	3.5833410	0.0310184	0.0887362	PSMB7
0136930		9	4	3	
ENSG0000	-0.521202	3.8953920	0.0310284	0.0887362	RXYLT1
0118600		3	1	3	
ENSG0000	0.6623361	3.7177225	0.0309652	0.0887362	CTDSP2
0175215	9	4	1	3	

ENSG0000	0.4816807	5.0636318	0.0310245	0.0887362	PDLIM4
0131435	9	4	4	3	
ENSG0000	-	5.6927098	0.0310083	0.0887362	ECI1
0167969	0.4399302	9	4	3	
ENSG0000	-	7.2407435	0.0309682	0.0887362	ITGB1BP1
0119185	0.4458381	2	2	3	
ENSG0000	0.4868462	4.6476463	0.0310502	0.0887720	CCDC107
0159884	4	5	3	4	
ENSG0000	0.2287801	5.8593442	0.0310744	0.0888147	THUMPD1
0066654	4	5	7	7	
ENSG0000	-	1.7113121	0.0311040	0.0888636	ABHD10
0144827	1.4407717	4	9	7	
ENSG0000	0.3673036	7.0112397	0.0311321	0.0888997	CDIPT
0103502	9	3	2		
ENSG0000	-	5.3288097	0.0311460	0.0889034	PEX2
0164751	0.3250948	8	6		
ENSG0000	-	3.0575775	0.0312767	0.0892138	IPO9
0198700	0.8541138		2	1	
ENSG0000	-	4.1080202	0.0312794	0.0892138	F8
0185010	0.5290502		9	1	
ENSG0000	-0.424045	7.1205103	0.0313035	0.0892557	ATRX
0085224		1	4	5	
ENSG0000	0.3982698	2.8483499	0.0313318	0.0892775	HARBI1
0180423	4	8	7	3	
ENSG0000	1.1483421	3.7093035	0.0313553	0.0892775	EPHB2
0133216	8	8		3	
ENSG0000	0.4346736	4.2026627	0.0313568	0.0892775	ZNF641
0167528	8	7	6	3	
ENSG0000	-	6.4460504	0.0313438	0.0892775	TRMT112
0173113	0.2823188	2	6	3	
ENSG0000	-	6.8279499	0.0313579	0.0892775	GTF3C1
0077235	0.5926782	9	2	3	
ENSG0000	0.4027549	5.5650307	0.0313681	0.0892798	PCGF2
0277258	5	7		8	
ENSG0000	-	1.1606012	0.0313909	0.0893183	ADRA2C
0184160	5.7804887		7	4	
ENSG0000	-	1.9165514	0.0314201	0.0893481	FAM72C
0263513	3.1329344	2	4		
ENSG0000	-	3.5504794	0.0314108	0.0893481	QTRT1
0213339	0.6426456	1			
ENSG0000	-	3.6404243	0.0315447	0.0896613	GABRE
0102287	1.1398762	8	8	4	
ENSG0000	0.6591497	5.1470789	0.0315490	0.0896613	KDM6A
0147050	5	6	7	4	

ENSG0000	-	4.7381735	0.0316046	0.0897926	USP1
0162607	1.1108295	6	6		
ENSG0000	-0.460952	3.4530515	0.0316629	0.0899315	TAMM41
0144559		3	9	5	
ENSG0000	0.4234048	4.1810948	0.0317150	0.0900525	MAPKAPK2
0162889	7	2	1	3	
ENSG0000	-	2.1674754	0.0317256	0.0900559	RRP36
0124541	0.5421084	6	4	3	
ENSG0000	-	9.0712246	0.0317745	0.0901678	AP2B1
0006125	0.2526046	7	1	5	
ENSG0000	-	2.5944802	0.03179	0.090185	SGIP1
0118473	1.7000306	4			
ENSG0000	-0.798491	4.1989706	0.0318049	0.0902006	RABGGTB
0137955		3	7	8	
ENSG0000	-	2.2374189	0.0318259	0.0902333	SUGCT
0175600	1.7952643	8	3	2	
ENSG0000	-	3.4029229	0.0318886	0.0903842	PBK
0168078	3.3542421	9	3	4	
ENSG0000	-	3.5880926	0.0319493	0.0904488	ZNF764
0169951	0.3077924	7	3	9	
ENSG0000	0.6324807	6.6174036	0.0319471	0.0904488	UBR4
0127481		4	1	9	
ENSG0000	0.3692582	7.0688407	0.0319415	0.0904488	FAM214B
0005238	6	7	2	9	
ENSG0000	0.1825805	7.4824770	0.0319260	0.0904488	SDHC
0143252	5	9	6	9	
ENSG0000	0.4193739	6.8950666	0.0320255	0.0906379	PLAGL1
0118495		6	9	1	
ENSG0000	1.8105256	3.8891028	0.0320573	0.0906741	GPX1
0233276	3	9	6		
ENSG0000	0.2444160	7.2352891	0.0320506	0.0906741	PCNX3
0197136	6		1		
ENSG0000	0.4257743	5.8995809	0.0320832	0.0907203	CDK12
0167258	2	2	3	8	
ENSG0000	0.4211185	5.1060362	0.0321205	0.0907990	THOC2
0125676	3		6	7	
ENSG0000	-	3.2394902	0.0321649	0.0908439	NOPCHAP
0151131	0.4628298		7	1	1
ENSG0000	-	3.7288529	0.0321573	0.0908439	FCRLB
0162746	0.4283837	3	1	1	
ENSG0000	-	6.3252462	0.0321537	0.0908439	KLF4
0136826	0.6314537	3	9	1	
ENSG0000	-	3.9662043	0.0321963	0.0909055	MYEF2
0104177	0.7486105	3	1	5	

ENSG0000	-	3.1626613	0.0322752	0.0911014	RABEP1
0029725	0.6917437	7	3	5	
ENSG0000	0.5463744	3.9908323	0.0322970	0.0911360	MGRN1
0102858	3	8	4	7	
ENSG0000	0.8148340	3.8442455	0.0323366	0.091221	WDR45B
0141580	6	4	9		
ENSG0000	-	1.0836952	0.0323522	0.0912380	OXCT1
0083720	2.1122309	1	9	5	
ENSG0000	-	5.9622872	0.0323709	0.0912636	SLAIN2
0109171	0.5644575	6	3	5	
ENSG0000	1.3498913	2.2585804	0.0324047	0.0913321	SLC25A12
0115840	9	7	8	4	
ENSG0000	-0.330228	5.2619676	0.0327464	0.0922678	ORAI1
0276045		6	2	1	
ENSG0000	-	3.4312899	0.0327622	0.0922850	ZNF608
0168916	1.3829721	5	1	7	
ENSG0000	0.232298	7.3566874	0.0327779	0.0923021	PLSCR3
0187838		9	6	9	
ENSG0000	0.2910506	5.0682013	0.0327965	0.0923273	RAB21
0080371	4	9	5	2	
ENSG0000	0.9637481	3.17063	0.0328335	0.0923774	CUL9
0112659			8	6	
ENSG0000	-	5.7352099	0.0328337	0.0923774	MIGA1
0180488	0.2998527	4	1	6	
ENSG0000	-	2.8760203	0.0328544	0.0924084	C11orf1
0137720	0.5014194	7	1	6	
ENSG0000	0.5555265	4.5643446	0.0329014	0.0924971	CRYBB2P1
0100058	9		8	4	
ENSG0000	0.5420912	4.8216293	0.0329053	0.0924971	TMEM164
0157600	1	4	1	4	
ENSG0000	1.2785777	5.6417498	0.0329965	0.0927263	TPI1
0111669	8	7	4		
ENSG0000	0.1806410	6.9902736	0.0331662	0.0931482	PTPN9
0169410	4	3	1	7	
ENSG0000	-	8.6403879	0.0331588	0.0931482	YARS1
0134684	0.3692839	4	8	7	
ENSG0000	1.0143993	6.0507245	0.0332823	0.093447	TIMP1
0102265	7	5	6		
ENSG0000	-	5.3856752	0.0333120	0.0935029	ATP9B
0166377	0.3504541	8	9	7	
ENSG0000	-	1.7512191	0.0333627	0.0936176	RRP15
0067533	0.6995539	2	3	2	
ENSG0000	-	4.4971330	0.0334169	0.0937145	FAIM
0158234	0.3242759	9		2	

ENSG0000	-	6.9947535	0.0334122	0.0937145	NEGR1
0172260	0.7850731	1	4	2	
ENSG0000	-	2.0155611	0.0334343	0.0937360	SMYD3
0185420	1.6183619	7	9	6	
ENSG0000	-	1.2839915	0.0335148	0.0939065	HECW1
0002746	1.6282013	9	7	5	
ENSG0000	-	10.260451	0.0335066	0.0939065	AP2M1
0161203	0.2744867	2	4	5	
ENSG0000	0.3380481	5.4587958	0.0335431	0.0939581	ZNF746
0181220	3	9	4	7	
ENSG0000	-	8.4817581	0.0335579	0.0939721	U2AF2
0063244	0.3431596	7	6	3	
ENSG0000	0.6799111	4.5783297	0.0335922	0.0940404	NHS
0188158	5	7	1	6	
ENSG0000	-	6.5994904	0.0336104	0.094064	CTDNEP1
0175826	0.3234878	6	7		
ENSG0000	0.2766059	5.1565497	0.0336685	0.0941842	TMEM33
0109133	9	1	9	9	
ENSG0000	-	5.4308776	0.0336731	0.0941842	AP2A2
0183020	0.5510389	3	8	9	
ENSG0000	1.5025250	1.6686240	0.0337126	0.0942671	TMEM51
0171729	3	5	9	9	
ENSG0000	-0.614475	2.0287333	0.0337451	0.0942873	POLB
0070501		3	6	5	
ENSG0000	0.6609341	2.6429069	0.0337444	0.0942873	ZFAND4
0172671		1	4	5	
ENSG0000	-0.21801	5.4352294	0.0337495	0.0942873	RWDD2B
0156253		3	2	5	
ENSG0000	0.4636747	5.1154462	0.0337926	0.0943801	MAP1LC3A
0101460	8		1	2	
ENSG0000	0.5593008	2.3579649	0.0338522	0.0945190	OR10H1
0186723		2	5	3	
ENSG0000	-	1.7512242	0.0339153	0.0946674	CUTC
0119929	1.0802562	8	1	3	
ENSG0000	-	3.1171864	0.0340404	0.0949890	MECR
0116353	0.6974816	5	7	3	
ENSG0000	0.7597512	3.7874710	0.0340684	0.0950392	SRSF4
0116350	7	4	2	4	
ENSG0000	-	6.870703	0.0341110	0.0951303	CUL3
0036257	0.2132825		3	3	
ENSG0000	0.4882450	3.1224667	0.0342257	0.0954223	GLA
0102393	8	3	3	3	
ENSG0000	0.3883519	7.2270600	0.0343258	0.0956734	TBCD
0141556	5	1			

ENSG0000	0.7951143	3.7075494	0.0343720	0.0957744	TBC1D23
0036054	6	2	8	4	
ENSG0000	0.5924658	2.6624723	0.0344381	0.0959305	TMEM53
0126106		9	6	8	
ENSG0000	-	2.5984468	0.0344546	0.0959484	NUF2
0143228	2.3274079	2	2	4	
ENSG0000	0.6951567	4.4799006	0.0344807	0.0959932	TLE4
0106829	2	1	8	7	
ENSG0000	0.4487896	4.9771508	0.0346068	0.0962948	ZDHHC14
0175048	3	8	5		
ENSG0000	0.2228675	6.2486387	0.0346092	0.0962948	SCAND1
0171222	7	1	5		
ENSG0000	1.4288513	4.5235337	0.0347276	0.0965959	CNN3
0117519	9	5	1	6	
ENSG0000	0.9879901	1.7148037	0.0347535	0.0966399	FAM20C
0177706		6	6	9	
ENSG0000	0.8465805	5.9056657	0.0348219	0.0968021	ADRM1
0130706	3	6	9		
ENSG0000	-	3.3097371	0.0348726	0.0969147	SLC38A1
0111371	1.2346334		6	3	
ENSG0000	-	2.6654053	0.0350786	0.0974240	ACTC1
0159251	1.6642546	1	4	2	
ENSG0000	1.3261899	3.1230350	0.0350719	0.0974240	RAB27A
0069974	9	7		2	
ENSG0000	0.3165627	4.2312844	0.0350865	0.0974240	NAPB
0125814	9	7	2	2	
ENSG0000	-1.067522	1.6687162	0.0351366	0.0975349	HNRNPA1L
0224578		5	9	6	3
ENSG0000	0.9627078	3.4661873	0.0351696	0.0975863	MAP2K2
0126934	1	1	6	7	
ENSG0000	0.2777121	6.1380719	0.0351756	0.0975863	SPOP
0121067	2		5	7	
ENSG0000	1.4096475	1.3156867	0.0352422	0.0977427	DISC1
0162946	3	7	4	1	
ENSG0000	-	6.2420814	0.0353073	0.0978725	DPY19L4
0156162	0.3636462	6	3	3	
ENSG0000	0.7114544	1.5917780	0.0353938	0.0980776	MPZ
0158887	9	3	3	9	
ENSG0000	0.6970299	0.9679337	0.0354196	0.0981206	SLC66A1L
0174899	3		2	7	
ENSG0000	-	3.7735624	0.0354347	0.098134	POLA2
0014138	1.4473569	1	1		
ENSG0000	-	2.9386338	0.0354690	0.0981880	THOC1
0079134	0.8068356	2	4	7	

ENSG0000	-	5.5671417	0.0354748	0.0981880	RPS8
0142937	0.3526062			7	
ENSG0000	-0.58057	4.7458181	0.0355389	0.0983370	NBPF3
0142794		2	4	9	
ENSG0000	-	1.4538046	0.0356049	0.0984912	TPX2
0088325	3.4747171	7	5	2	
ENSG0000	-	3.1984159	0.0357102	0.0987538	TYSND1
0156521	0.5462377	7	4	5	
ENSG0000	-0.700126	3.1135544	0.0357469	0.0988205	MAST2
0086015		7	8	6	
ENSG0000	0.4518693	11.181336	0.0357550	0.0988205	CD63
0135404	6	8	6	6	
ENSG0000	-	3.3720108	0.0358268	0.0989904	KAT8
0103510	0.4235451		8		
ENSG0000	-	4.4475707	0.0358830	0.0991168	RGS20
0147509	0.9388586		2	6	
ENSG0000	0.3950358	5.0461095	0.0359101	0.0991632	JOSD2
0161677	2	9	9	2	
ENSG0000	0.6217449	2.0677015	0.0359206	0.0991633	ST20
0180953	3	6	2	5	
ENSG0000	-	2.1081218	0.0359654	0.0992583	LRRC73
0204052	0.9221396	9	4	8	
ENSG0000	0.3303682	7.8627155	0.0359898	0.0992971	NBPF14
0270629	6	7	9	6	
ENSG0000	0.5347175	6.1223107	0.0360429	0.0994148	FKBP11
0134285	4	4	6	5	
ENSG0000	0.7456943	4.7222580	0.0360560	0.0994221	CAP2
0112186	6	3	3	7	
ENSG0000	-	3.9884437	0.0360665	0.0994224	ID1
0125968	0.5486012	7	5	9	
ENSG0000	0.2337435	8.6851527	0.0361643	0.0996631	SSR1
0124783	4	2		7	
ENSG0000	-	3.6503283	0.0362559	0.0998580	RPL23AP7
0240356	0.6260544	4	3	7	
ENSG0000	0.6511597	3.5779371	0.0362498	0.0998580	FLCN
0154803	9	3	4	7	
ENSG0000	1.1430593	6.9233806	0.0362694	0.0998664	COL4A2
0134871	6	2	4	5	

Supplementary table 2

DEG between Unstim and CM-stimulation was determined and marked yellow if a false discovery rate meets thresholds ($-\log_{10}(\text{FDR}) \leq 0.1$).

gene	logFC	AveExpr	P.Value	adj.P.Val	hgnc_symbol
ENSG00000137496	- 3.4667585	4.8270857 9	1.54E-21	1.47E-17	IL18BP
ENSG00000188313	- 1.7174905	5.6934181 9	7.52E-15	3.59E-11	PLSCR1
ENSG00000168961	- 3.3543533	2.8685206 1	2.15E-14	6.86E-11	LGALS9
ENSG00000154451	- 3.5460026	5.2539266 1	1.23E-13	2.93E-10	GBP5
ENSG00000173821	- 1.6316571	9.7201073	1.76E-13	3.06E-10	RNF213
ENSG00000002549	- 1.3006076	9.1089933 3	2.02E-13	3.06E-10	LAP3
ENSG00000187608	- 2.3505919	7.0011027 9	2.24E-13	3.06E-10	ISG15
ENSG00000003402	- 1.2142343	6.6157385 1	2.68E-13	3.20E-10	CFLAR
ENSG00000173786	- 1.1622215	7.9477969 4	5.75E-13	6.10E-10	CNP
ENSG00000135114	- 2.6753789	4.1532372 8	8.51E-13	7.75E-10	OASL
ENSG00000151327	- 1.2523348	7.2679915 3	9.18E-13	7.75E-10	FAM177A1
ENSG00000168334	- 3.5312866	1.8053222 3	9.73E-13	7.75E-10	XIRP1
ENSG00000116514	- 1.8493974	6.3018977 5	1.13E-12	8.14E-10	RNF19B
ENSG00000134326	- 2.5245064	3.6327682 7	1.19E-12	8.14E-10	CMPK2
ENSG00000198736	- 1.3074901	5.5147835	1.34E-12	8.51E-10	MSRB1
ENSG00000101347	- 1.2578587	7.5676561 3	3.10E-12	1.85E-09	SAMHD1
ENSG00000119922	- 3.4294094	5.3283236 9	3.75E-12	2.11E-09	IFIT2
ENSG00000131979	- 2.1324059	4.3822450 3	7.52E-12	3.59E-09	GCH1
ENSG00000183486	- 2.4279576	1.3903432	6.90E-12	3.59E-09	MX2
ENSG00000161654	- 2.8046012	- 0.7602781	7.52E-12	3.59E-09	LSM12

ENSG0000	-	2.8425951	1.03E-11	4.68E-09	THEMIS2
0130775	2.0673969	2			
ENSG0000	-	5.7074197	1.15E-11	4.98E-09	PTPN2
0175354	1.3270872	5			
ENSG0000	-1.188895	9.6096057	1.74E-11	7.22E-09	GOLM1
0135052		1			
ENSG0000	-	5.4445943	2.80E-11	1.11E-08	RHBDF2
0129667	2.0338102	6			
ENSG0000	-	5.7687029	3.08E-11	1.18E-08	IFI6
0126709	2.0212019	4			
ENSG0000	-	1.6114132	3.97E-11	1.46E-08	MT1G
0125144	2.6134705	5			
ENSG0000	-	7.8630571	4.67E-11	1.65E-08	SP100
0067066	0.9838613	6			
ENSG0000	-	3.8228004	7.13E-11	2.43E-08	TNFSF13B
0102524	2.3771439	4			
ENSG0000	-	4.5786825	7.98E-11	2.63E-08	APOL4
0100336	2.1590766	8			
ENSG0000	-	7.2351742	1.55E-10	4.95E-08	SBNO2
0064932	1.7882833	2			
ENSG0000	-	2.3783577	2.17E-10	6.68E-08	ETV7
0010030	1.3071121	1			
ENSG0000	-	2.0698272	3.18E-10	9.49E-08	CCL7
0108688	4.6055618	7			
ENSG0000	-	5.7095316	4.34E-10	1.26E-07	LIFR
0113594	1.8621484	6			
ENSG0000	-	7.2845208	4.68E-10	1.31E-07	WSB1
0109046	1.1550166	2			
ENSG0000	-	5.3720848	4.92E-10	1.34E-07	DOP1A
0083097	1.5418345	3			
ENSG0000	-	5.7391873	5.09E-10	1.35E-07	SP110
0135899	1.3359903	4			
ENSG0000	-	6.7623864	6.58E-10	1.70E-07	IFI35
0068079	1.2387366	6			
ENSG0000	-	6.9287951	6.88E-10	1.73E-07	SNTB2
0168807	0.9067032	9			
ENSG0000	-2.042806	1.4243519	1.23E-09	3.00E-07	IFITM3
0142089		9			
ENSG0000	-	7.5456180	1.30E-09	3.11E-07	BCAP29
0075790	0.9709167	4			
ENSG0000	-	4.8684397	1.51E-09	3.51E-07	MOB3C
0142961	0.8580906	2			
ENSG0000	-	7.4530476	1.55E-09	3.52E-07	HELZ2
0130589	1.6514186	3			

ENSG0000	-	7.3118858	2.79E-09	6.20E-07	IRF1
0125347	1.2686879	1			
ENSG0000	-	7.2151745	3.03E-09	6.57E-07	PML
0140464	1.0955092	2			
ENSG0000	-	7.2363654	3.60E-09	7.63E-07	B4GALT5
0158470	1.3098655	2			
ENSG0000	-	5.2234246	4.27E-09	8.68E-07	ELMO2
0062598	1.2557324	1			
ENSG0000	0.8831461	7.3084108	4.24E-09	8.68E-07	NUP188
0095319		1			
ENSG0000	0.9300164	7.9700492	4.63E-09	9.22E-07	PABPC4
0090621	9	9			
ENSG0000	-	8.6278738	5.06E-09	9.86E-07	KARS1
0065427	0.6199511	1			
ENSG0000	1.2069764	8.3299776	5.23E-09	9.88E-07	TTC3
0182670	8	6			
ENSG0000	-	7.8401252	5.27E-09	9.88E-07	TPGS2
0134779	0.8694858	3			
ENSG0000	0.8460531	6.2880567	5.60E-09	1.03E-06	CERS6
0172292	6				
ENSG0000	-	5.6633761	5.97E-09	1.08E-06	EPSTI1
0133106	1.2322052	1			
ENSG0000	-	3.636953	6.44E-09	1.14E-06	TMEM171
0157111	1.6818032				
ENSG0000	-	7.1866243	6.83E-09	1.19E-06	RIOK3
0101782	0.8002127	9			
ENSG0000	-0.819906	7.9017650	7.05E-09	1.20E-06	CNDP2
0133313		8			
ENSG0000	-	5.0254629	7.58E-09	1.21E-06	ALPK1
0073331	1.5562144	4			
ENSG0000	-	4.9698555	7.56E-09	1.21E-06	CFH
0000971	1.7135824	6			
ENSG0000	0.7592482	6.6996345	7.42E-09	1.21E-06	TTL
0114999	6	3			
ENSG0000	-	-	7.29E-09	1.21E-06	SOCS1
0185338	3.3524305	0.6623023			
ENSG0000	-	9.0959568	1.19E-08	1.86E-06	HM13
0101294	0.8412201				
ENSG0000	-	4.6656815	1.30E-08	2.01E-06	ISG20
0172183	2.2702867	6			
ENSG0000	-	3.8290354	1.48E-08	2.25E-06	CASP1
0137752	1.2800927	9			
ENSG0000	-	4.9179651	1.52E-08	2.26E-06	IDO1
0131203	3.3028173	6			

ENSG0000	-	2.7978428	1.64E-08	2.42E-06	MLKL
0168404	1.9044265				
ENSG0000	0.8632901	8.5872064	1.73E-08	2.50E-06	EIF3L
0100129	5	7			
ENSG0000	-	2.1364756	1.87E-08	2.66E-06	IFIH1
0115267	2.2431205				
ENSG0000	1.0108243	6.2278248	2.31E-08	3.25E-06	PHTF2
0006576	3	6			
ENSG0000	-	4.4833377	2.39E-08	3.31E-06	RNF114
0124226	1.6865592	6			
ENSG0000	1.1329757	5.7225677	2.45E-08	3.34E-06	CYREN
0122783	5	2			
ENSG0000	-	6.8342793	2.71E-08	3.65E-06	DDX60L
0181381	1.6131762	2			
ENSG0000	-	5.4623645	2.76E-08	3.66E-06	GSTK1
0197448	0.9312108	2			
ENSG0000	0.8079194	9.3702872	2.99E-08	3.91E-06	HMGB1
0189403	6	5			
ENSG0000	-	8.3056004	3.62E-08	4.67E-06	IFI16
0163565	1.1938377	3			
ENSG0000	-	6.8128819	3.70E-08	4.71E-06	SOCS3
0184557	2.3013583				
ENSG0000	-	-	4.04E-08	5.08E-06	RSAD2
0134321	2.2603117	0.4192228			
ENSG0000	-	7.8076772	4.39E-08	5.44E-06	LZTS2
0107816	0.7790939	9			
ENSG0000	-0.99036	7.3088094	4.56E-08	5.58E-06	RNF24
0101236		6			
ENSG0000	-	6.9030906	4.65E-08	5.62E-06	RSU1
0148484	1.1161633	1			
ENSG0000	-	6.4614396	5.52E-08	6.58E-06	CD2AP
0198087	0.8468826	4			
ENSG0000	0.9802995	5.3091198	5.86E-08	6.91E-06	PIGX
0163964	8	8			
ENSG0000	-	2.9507440	5.95E-08	6.93E-06	PSEN2
0143801	1.5427619	8			
ENSG0000	-	6.1060807	6.54E-08	7.52E-06	RBM4
0173933	0.6851244	8			
ENSG0000	2.0494386	7.6291476	7.01E-08	7.97E-06	TMPO
0120802	3	8			
ENSG0000	1.6931528	5.4210544	7.14E-08	8.02E-06	POLA1
0101868	5	4			
ENSG0000	-2.972941	0.5180328	7.77E-08	8.62E-06	CD274
0120217		3			

ENSG0000	-1.252804	6.5668159	8.01E-08	8.79E-06	MYD88
0172936		8			
ENSG0000	-	7.1247634	8.11E-08	8.80E-06	XRN1
0114127	1.0141583	9			
ENSG0000	-0.925602	3.6000130	8.67E-08	9.31E-06	VAMP5
0168899		5			
ENSG0000	-	9.3268815	9.37E-08	9.94E-06	OPTN
0123240	1.0391297	9			
ENSG0000	1.4065299	4.2676293	1.01E-07	1.06E-05	ATRIP
0164053	1	5			
ENSG0000	-1.230044	3.6907587	1.04E-07	1.08E-05	RELA
0173039		1			
ENSG0000	-1.436629	5.5855222	1.18E-07	1.21E-05	STOM
0148175		5			
ENSG0000	0.851816	5.0012906	1.26E-07	1.28E-05	AGBL5
0084693		4			
ENSG0000	-1.180175	4.8246881	1.32E-07	1.31E-05	RBMS2
0076067		4			
ENSG0000	-	3.8529535	1.33E-07	1.31E-05	OAS2
0111335	1.4497249	8			
ENSG0000	-	7.2276820	1.33E-07	1.31E-05	APOL3
0128284	1.6001998	6			
ENSG0000	-	7.0511654	1.39E-07	1.36E-05	CASP4
0196954	0.9070928				
ENSG0000	-2.697298	4.2646782	1.43E-07	1.37E-05	LIMK2
0182541		4			
ENSG0000	-	4.9946202	1.44E-07	1.37E-05	TMEM140
0146859	1.3515929				
ENSG0000	0.6728841	9.2894660	1.48E-07	1.40E-05	EIF4B
0063046	7	6			
ENSG0000	-	8.0474593	1.50E-07	1.40E-05	BNIP3
0176171	1.6513616	4			
ENSG0000	-	-	1.57E-07	1.46E-05	SLAMF8
0158714	5.2743925	1.2185749			
ENSG0000	-	1.6940853	1.67E-07	1.53E-05	GSAP
0186088	1.6200511	3			
ENSG0000	-3.106809	4.4118838	1.71E-07	1.55E-05	SECTM1
0141574		6			
ENSG0000	-	7.0911294	1.82E-07	1.64E-05	RUNX1
0159216	0.9737406	5			
ENSG0000	-1.056081	7.8848275	1.90E-07	1.70E-05	PTPRA
0132670		3			
ENSG0000	2.2849843	7.0350587	2.03E-07	1.80E-05	SMC4
0113810	6	1			

ENSG0000	-	6.5568377	2.06E-07	1.81E-05	TLK2
0146872	0.5980857	2			
ENSG0000	-	6.4947687	2.13E-07	1.85E-05	RAP2C
0123728	0.7612452				
ENSG0000	-	4.7340127	2.18E-07	1.86E-05	FAM222B
0173065	0.8974125	9			
ENSG0000	-	8.6998896	2.18E-07	1.86E-05	NNMT
0166741	1.6270728	3			
ENSG0000	3.3471239	6.3726903	2.21E-07	1.87E-05	NUSAP1
0137804		1			
ENSG0000	-	0.8309522	2.29E-07	1.92E-05	CD40
0101017	2.5588736	3			
ENSG0000	-	4.9561587	2.40E-07	2.00E-05	CTSS
0163131	1.4685252	8			
ENSG0000	-	0.8561078	2.45E-07	2.01E-05	CD7
0173762	4.2713021	1			
ENSG0000	-	6.9119452	2.60E-07	2.12E-05	PSEN1
0080815	0.7480388	1			
ENSG0000	-	7.6395701	2.81E-07	2.28E-05	OGFR
0060491	0.6468825	3			
ENSG0000	-	7.3968829	3.05E-07	2.44E-05	BAZ2A
0076108	0.8750662	8			
ENSG0000	-	10.759579	3.25E-07	2.59E-05	QSOX1
0116260	0.8941457	4			
ENSG0000	-	2.1456343	3.40E-07	2.68E-05	TCAF2
0170379	1.9584586	6			
ENSG0000	-	9.5652337	4.05E-07	3.17E-05	PGK1
0102144	1.2999671	8			
ENSG0000	-	0.4567043	4.15E-07	3.22E-05	IFIT1
0185745	2.4583621	1			
ENSG0000	2.2921272	3.5700635	4.42E-07	3.40E-05	REXO5
0005189	5	5			
ENSG0000	-	3.2929810	4.51E-07	3.45E-05	IL15RA
0134470	1.1952152	2			
ENSG0000	0.7138514	8.8077544	4.56E-07	3.46E-05	EEF1B2
0114942	1	9			
ENSG0000	1.03693	4.6166294	4.63E-07	3.48E-05	FBF1
0188878		4			
ENSG0000	-	4.7784560	4.69E-07	3.50E-05	HAPLN3
0140511	1.8450323	7			
ENSG0000	-	8.2488294	4.79E-07	3.54E-05	SELENOM
0198832	0.6749463	9			
ENSG0000	0.7119173	7.6093441	4.96E-07	3.65E-05	FAM168B
0152102		9			

ENSG0000	0.7429825	7.0849458	5.26E-07	3.84E-05	SNX5
0089006	2	3			
ENSG0000	-	7.2355530	5.49E-07	3.97E-05	NECTIN2
0130202	0.8786121	9			
ENSG0000	1.5206468	4.7021501	5.79E-07	4.16E-05	TYRO3
0092445		5			
ENSG0000	0.3761758	8.2572778	6.12E-07	4.36E-05	SRP9
0143742	7	6			
ENSG0000	-	5.8676963	6.37E-07	4.51E-05	ODF2L
0122417	0.6717159	8			
ENSG0000	1.4466857	6.0024922	6.63E-07	4.66E-05	TIMELESS
0111602	4	1			
ENSG0000	-	2.2908982	7.11E-07	4.92E-05	DENND2D
0162777	1.6620758	1			
ENSG0000	-	5.4818132	7.11E-07	4.92E-05	SHFL
0130813	0.8289501	1			
ENSG0000	1.4351471	5.2853990	7.95E-07	5.42E-05	DSN1
0149636	8	6			
ENSG0000	-	5.6958447	7.92E-07	5.42E-05	RIPK2
0104312	1.1859036	1			
ENSG0000	-0.574186	6.1745564	8.81E-07	5.96E-05	RAB18
0099246		8			
ENSG0000	0.5078854	9.2031940	9.30E-07	6.25E-05	LDHB
0111716	8	7			
ENSG0000	1.1277080	6.9200100	9.38E-07	6.26E-05	DYNC2I2
0119333	7	7			
ENSG0000	-	7.3123727	1.12E-06	7.42E-05	IFIT3
0119917	1.7219872	1			
ENSG0000	1.7426061	5.0970385	1.18E-06	7.74E-05	CDCA2
0184661	4				
ENSG0000	0.6673916	10.288955	1.18E-06	7.74E-05	RPL6
0089009	9	3			
ENSG0000	1.4727127	5.6959981	1.24E-06	8.02E-05	ZWILCH
0174442	4	3			
ENSG0000	-	9.2233654	1.27E-06	8.14E-05	PALM2AKA P2
0157654	1.0516811				
ENSG0000	-	6.2907841	1.32E-06	8.41E-05	PDCD10
0114209	0.5842223				
ENSG0000	-	5.3442039	1.34E-06	8.50E-05	APOL1
0100342	1.9134398	9			
ENSG0000	1.2849671	5.3170185	1.49E-06	9.38E-05	PARP2
0129484	7	4			
ENSG0000	1.0654282	4.0193985	1.51E-06	9.45E-05	ITGAE
0083457	5	6			

ENSG0000	-	8.8233853	1.58E-06	9.81E-05	TAP1
0168394	1.0251815	5			
ENSG0000	-	2.5187894	1.63E-06	1.00E-04	AVIL
0135407	1.6542175	5			
ENSG0000	1.1811666	6.7076562	1.68E-06	1.03E-04	H2AZ2
0105968	1	8			
ENSG0000	-	4.0816122	1.69E-06	1.03E-04	TRAFD1
0135148	1.6202767	3			
ENSG0000	0.8320099	6.7006497	1.75E-06	1.06E-04	TP53
0141510	7	3			
ENSG0000	-	7.8212712	1.81E-06	1.09E-04	MKNK2
0099875	0.9857947	1			
ENSG0000	0.8153473	5.0062804	1.88E-06	1.11E-04	MKKS
0125863	2	6			
ENSG0000	-	5.0342642	1.88E-06	1.11E-04	STEAP2
0157214	2.1287655	4			
ENSG0000	-	2.9819350	2.02E-06	1.19E-04	TNS3
0136205	1.8378476	8			
ENSG0000	-	10.924074	2.06E-06	1.21E-04	ENG
0106991	0.4723066	3			
ENSG0000	1.4944804	5.8635104	2.11E-06	1.22E-04	PXK
0168297	3				
ENSG0000	0.8594065	6.2994388	2.10E-06	1.22E-04	HMGB1P6
0259781	9	4			
ENSG0000	-	6.0807085	2.14E-06	1.23E-04	PPP2R2A
0221914	0.6771647	6			
ENSG0000	2.8451743	5.3571321	2.19E-06	1.24E-04	PRR11
0068489	5	1			
ENSG0000	1.5771792	5.0847863	2.20E-06	1.24E-04	RFC4
0163918	2	9			
ENSG0000	0.6246275	6.5831137	2.19E-06	1.24E-04	GMPS
0163655	2	7			
ENSG0000	-	5.7065241	2.24E-06	1.25E-04	STAT6
0166888	0.8945197	5			
ENSG0000	0.6905778	10.406512	2.23E-06	1.25E-04	CAV1
0105974	4	9			
ENSG0000	-	7.6758382	2.27E-06	1.26E-04	C4orf3
0164096	0.7030552	2			
ENSG0000	2.7368268	6.4716833	2.30E-06	1.27E-04	CCNB1
0134057	8	8			
ENSG0000	2.9409853	6.2991135	2.40E-06	1.32E-04	AURKA
0087586	9	9			
ENSG0000	0.9615847	4.4580633	2.48E-06	1.35E-04	RAD51C
0108384	8	3			

ENSG0000	3.0706974	5.6560762	2.53E-06	1.37E-04	DEPDC1
0024526	9	4			
ENSG0000	-	6.4564620	2.56E-06	1.38E-04	STING1
0184584	1.0656024	7			
ENSG0000	-	7.1364832	2.62E-06	1.41E-04	ST6GALNA
0160408	0.7892468	2			C6
ENSG0000	-	0.1275548	2.64E-06	1.41E-04	ITK
0113263	2.0754311	4			
ENSG0000	-	2.1088253	2.67E-06	1.42E-04	GRIP2
0144596	1.2774387	3			
ENSG0000	0.6834891	5.5774075	2.76E-06	1.46E-04	COA1
0106603	1				
ENSG0000	1.6039122	4.1575325	2.87E-06	1.50E-04	PARPBP
0185480	4	9			
ENSG0000	-	1.7947139	2.86E-06	1.50E-04	CISH
0114737	2.1790779	3			
ENSG0000	1.1282903	5.5786994	2.96E-06	1.53E-04	CCDC14
0175455	1	7			
ENSG0000	-	3.5160816	2.97E-06	1.53E-04	MX1
0157601	1.8526522	9			
ENSG0000	-	8.1798491	3.09E-06	1.58E-04	SAP18
0150459	0.5449917	6			
ENSG0000	0.5727640	9.0644645	3.12E-06	1.59E-04	NAP1L1
0187109	7	6			
ENSG0000	-	0.0541720	3.14E-06	1.60E-04	ZNF80
0174255	2.4156705	3			
ENSG0000	1.9858779	5.7288031	3.19E-06	1.61E-04	CENPN
0166451	5	5			
ENSG0000	0.8000895	7.5591183	3.32E-06	1.67E-04	ACO1
0122729					
ENSG0000	1.7142969	4.8371611	3.40E-06	1.70E-04	CEP85
0130695	4				
ENSG0000	0.7626943	5.4949363	3.42E-06	1.70E-04	EXTL2
0162694	5	5			
ENSG0000	-	2.1146916	3.68E-06	1.82E-04	MARCHF3
0173926	1.6717534	3			
ENSG0000	-	5.2178954	3.71E-06	1.83E-04	ARID5B
0150347	1.6609108	3			
ENSG0000	2.3472705	5.1258431	3.76E-06	1.84E-04	FANCD2
0144554	8	5			
ENSG0000	2.6391343	6.8958051	3.78E-06	1.84E-04	KIF23
0137807	6				
ENSG0000	-	4.0446575	4.03E-06	1.96E-04	IFI27
0165949	1.6675649	8			

ENSG0000	2.3839443	6.2667041	4.16E-06	2.01E-04	PRC1
0198901	4	5			
ENSG0000	-	5.2073799	4.22E-06	2.03E-04	FUT4
0196371	0.5266164	3			
ENSG0000	1.6879861	7.5811283	4.43E-06	2.11E-04	H2AX
0188486	3	4			
ENSG0000	1.4318322	3.8820551	4.59E-06	2.18E-04	TMEM243
0135185	8	1			
ENSG0000	3.1495805	6.1376128	4.73E-06	2.24E-04	ANLN
0011426	5	8			
ENSG0000	-	7.0602354	5.01E-06	2.36E-04	TMED5
0117500	0.5643123	8			
ENSG0000	2.1697301	3.2356154	5.09E-06	2.38E-04	FAM72B
0188610	8				
ENSG0000	1.3292548	4.895201	5.14E-06	2.40E-04	NPM3
0107833	5				
ENSG0000	-	10.016507	5.26E-06	2.44E-04	CTSL
0135047	1.1905214	3			
ENSG0000	-	5.9916573	5.46E-06	2.52E-04	GBP3
0117226	1.0398919	5			
ENSG0000	2.3196068	6.0066547	5.50E-06	2.52E-04	KIF20B
0138182	6	3			
ENSG0000	-	4.2804760	5.58E-06	2.55E-04	TREX1
0213689	1.1265202	6			
ENSG0000	-	3.9424564	5.65E-06	2.57E-04	NT5C3A
0122643	1.4109029	6			
ENSG0000	1.0509286	4.9722943	5.87E-06	2.61E-04	CMSS1
0184220	1	7			
ENSG0000	-	2.4586025	5.82E-06	2.61E-04	FKBP1B
0119782	1.4243287	4			
ENSG0000	-	5.5383566	5.82E-06	2.61E-04	AK4
0162433	1.4730055	3			
ENSG0000	-	6.6640372	5.85E-06	2.61E-04	NUPR1
0176046	0.9092774	2			
ENSG0000	-	7.0418027	5.77E-06	2.61E-04	GRAMD1A
0089351	1.2707666	3			
ENSG0000	0.8293335	6.6134866	6.32E-06	2.78E-04	ODF2
0136811	6	2			
ENSG0000	-1.288916	2.0023625	6.30E-06	2.78E-04	GBP1P1
0225492		6			
ENSG0000	-	4.0479485	6.95E-06	3.00E-04	PPAN
0130810	1.2111498	7			
ENSG0000	0.7349152	4.7157782	7.01E-06	3.00E-04	SLC9A3
0066230	9	5			

ENSG0000	1.0616551	5.3835374	6.92E-06	3.00E-04	CMC2
0103121	3	2			
ENSG0000	-	1.4843544	6.99E-06	3.00E-04	HERC6
0138642	1.3915349	2			
ENSG0000	2.4869360	3.8432738	6.99E-06	3.00E-04	EME1
0154920	9	6			
ENSG0000	-1.37998	3.026148	6.90E-06	3.00E-04	GBP1
0117228					
ENSG0000	2.9942236	4.7610969	7.24E-06	3.09E-04	MXD3
0213347	1	3			
ENSG0000	0.5162937	6.1441973	7.44E-06	3.16E-04	MOCS2
0164172	8	6			
ENSG0000	-	6.5567380	7.63E-06	3.22E-04	RBCK1
0125826	0.6148942	4			
ENSG0000	-	4.9250693	7.91E-06	3.33E-04	STBD1
0118804	1.1940349	5			
ENSG0000	0.649115	6.0411898	8.02E-06	3.36E-04	ATP5MC1
0159199					
ENSG0000	1.2125331	4.8124730	8.15E-06	3.38E-04	SSX2IP
0117155	5	8			
ENSG0000	0.5935338	5.4848005	8.15E-06	3.38E-04	FAF1
0185104	6				
ENSG0000	1.9377456	2.8293375	8.46E-06	3.50E-04	H2AZ1
0164032	9	2			
ENSG0000	-	4.0514536	8.74E-06	3.60E-04	IFI44
0137965	1.1008896	1			
ENSG0000	-	4.2259733	8.79E-06	3.60E-04	ZCCHC2
0141664	1.1179927	9			
ENSG0000	-	6.2023695	9.01E-06	3.68E-04	DENND1A
0119522	0.7082638	8			
ENSG0000	1.6075420	5.2761374	9.08E-06	3.69E-04	BRCA2
0139618	3	9			
ENSG0000	-	6.3558311	9.12E-06	3.69E-04	RASAL2
0075391	1.0259048	3			
ENSG0000	0.5866546	7.6750103	9.19E-06	3.70E-04	POLD2
0106628	7	3			
ENSG0000	-	4.3387640	9.30E-06	3.73E-04	DYRK4
0010219	1.0108331	6			
ENSG0000	0.6660152	7.3095852	9.73E-06	3.89E-04	NASP
0132780	4				
ENSG0000	2.3458771	4.8829412	9.84E-06	3.90E-04	RACGAP1
0161800	3	9			
ENSG0000	-	4.6923049	9.84E-06	3.90E-04	PAFAH1B1
0007168	1.3014382	4			

ENSG0000	-	5.7454669	1.00E-05	3.95E-04	MUC1
0185499	1.1511934				
ENSG0000	-1.476192	2.2305143	1.02E-05	3.98E-04	STAP2
0178078					
ENSG0000	-	6.0308116	1.02E-05	3.98E-04	C19orf12
0131943	0.7845643	2			
ENSG0000	-	8.6568260	1.02E-05	3.98E-04	TRIM8
0171206	0.6052813	7			
ENSG0000	1.2086758	3.9676865	1.11E-05	4.29E-04	GMNN
0112312	8	9			
ENSG0000	-	6.246504	1.11E-05	4.29E-04	FAM189B
0160767	0.7566453				
ENSG0000	-	7.7976782	1.12E-05	4.33E-04	TMEM248
0106609	0.5246318	1			
ENSG0000	0.6368290	6.6434119	1.14E-05	4.38E-04	DPY19L1
0173852	8	2			
ENSG0000	-	6.9148426	1.16E-05	4.43E-04	LGALS8
0116977	0.8116626	4			
ENSG0000	2.4147213	5.3850106	1.19E-05	4.51E-04	NCAPD2
0010292		2			
ENSG0000	1.7148997	4.5435713	1.24E-05	4.68E-04	RNASEH2A
0104889	3				
ENSG0000	-	6.5749819	1.24E-05	4.68E-04	SAMD4A
0020577	0.6750767	1			
ENSG0000	-	2.7538197	1.40E-05	5.24E-04	C4B
0224389	2.9562155	4			
ENSG0000	-0.996616	3.0776069	1.41E-05	5.24E-04	UBE2L6
0156587		6			
ENSG0000	-	8.3953807	1.40E-05	5.24E-04	STAT3
0168610	0.8773389	3			
ENSG0000	-	7.4024879	1.45E-05	5.37E-04	IL32
0008517	1.4378838	1			
ENSG0000	-	2.1664820	1.51E-05	5.54E-04	C4A
0244731	2.0593735	3			
ENSG0000	0.8265654	4.7472005	1.53E-05	5.54E-04	LAGE3
0196976	8	6			
ENSG0000	-1.554423	5.2562472	1.53E-05	5.54E-04	TBKBP1
0198933		5			
ENSG0000	0.9510479	6.2855001	1.54E-05	5.54E-04	ACACA
0278540	9	2			
ENSG0000	-	5.7818925	1.53E-05	5.54E-04	TMX1
0139921	0.9602419	9			
ENSG0000	-	8.1167851	1.50E-05	5.54E-04	ADGRE5
0123146	1.0275717	1			

ENSG0000	-	9.1256067	1.52E-05	5.54E-04	PDE4DIP
0178104	0.8834244	6			
ENSG0000	-	8.3266248	1.53E-05	5.54E-04	STAU1
0124214	0.3163651	7			
ENSG0000	-	5.8300317	1.60E-05	5.75E-04	ZDHHC9
0188706	1.0460012	4			
ENSG0000	-	5.9434505	1.63E-05	5.82E-04	RUBCN
0145016	0.8159141	7			
ENSG0000	-	4.7295179	1.76E-05	6.29E-04	ZC3HAV1
0105939	1.1921428	2			
ENSG0000	0.4887099	9.7874378	1.80E-05	6.38E-04	RPL5
0122406	4				
ENSG0000	-	-	1.80E-05	6.38E-04	ASCL2
0183734	7.2398246	1.0582891			
ENSG0000	-	1.9351300	1.81E-05	6.39E-04	MAP2
0078018	1.4134731	8			
ENSG0000	-	5.6719581	1.84E-05	6.45E-04	KREMEN1
0183762	1.3902098				
ENSG0000	1.5045307	7.1692214	1.88E-05	6.58E-04	SLC7A11
0151012					
ENSG0000	-	6.0399234	1.91E-05	6.64E-04	TM2D2
0169490	0.5495969	7			
ENSG0000	1.0398053	6.7084369	1.92E-05	6.67E-04	TPCN1
0186815	2	6			
ENSG0000	-0.974038	5.2578150	1.94E-05	6.70E-04	RNF217
0146373		9			
ENSG0000	1.9421885	5.3292061	2.01E-05	6.93E-04	MCM8
0125885	1	4			
ENSG0000	0.8489384	4.4989026	2.02E-05	6.95E-04	LSM5
0106355	5	5			
ENSG0000	0.9830266	4.3180563	2.05E-05	6.98E-04	TIMM21
0075336	3	4			
ENSG0000	0.5625238	9.3846266	2.04E-05	6.98E-04	RPL23
0125691	9	9			
ENSG0000	0.9883620	7.6291348	2.10E-05	7.13E-04	CKAP5
0175216	3	6			
ENSG0000	0.8893604	6.0850532	2.12E-05	7.19E-04	CXXC5
0171604	1	9			
ENSG0000	-	0.4265826	2.15E-05	7.25E-04	GVINP1
0254838	1.7598094	2			
ENSG0000	1.2636513	3.9256209	2.17E-05	7.28E-04	LIN9
0183814	7				
ENSG0000	2.3358580	4.7530793	2.17E-05	7.28E-04	MAD2L1
0164109	6	8			

ENSG0000	2.228208	2.6569731	2.18E-05	7.29E-04	HIRIP3
0149929		7			
ENSG0000	-	9.0974878	2.22E-05	7.40E-04	MGAT1
0131446	0.4627884	3			
ENSG0000	0.6113743	10.366684	2.35E-05	7.79E-04	NPM1
0181163	7	5			
ENSG0000	2.4529923	5.0304528	2.38E-05	7.86E-04	PCLAF
0166803	5	9			
ENSG0000	-	7.4095600	2.39E-05	7.88E-04	DSE
0111817	0.8002776	4			
ENSG0000	-	4.3131331	2.45E-05	8.04E-04	SLC16A4
0168679	1.9480734	1			
ENSG0000	-	6.7408130	2.52E-05	8.24E-04	NCOA3
0124151	0.5904366	2			
ENSG0000	-	11.544957	2.54E-05	8.28E-04	WARS1
0140105	1.0755737				
ENSG0000	1.7366297	4.1356543	2.58E-05	8.38E-04	CCNE2
0175305	2	2			
ENSG0000	0.6278464	7.1413014	2.61E-05	8.44E-04	MAP4K5
0012983	2	5			
ENSG0000	1.0224924	5.5969907	2.62E-05	8.45E-04	FOXRED2
0100350	8	4			
ENSG0000	0.8892933	9.3830735	2.64E-05	8.50E-04	IARS1
0196305	7	2			
ENSG0000	-	3.4571638	2.84E-05	9.09E-04	UPP1
0183696	1.7073869				
ENSG0000	-	4.6086471	2.90E-05	9.25E-04	SLFN12
0172123	0.9779435	8			
ENSG0000	2.1405558	4.7542043	2.91E-05	9.26E-04	MCM10
0065328	9	8			
ENSG0000	-	5.6637515	2.92E-05	9.26E-04	SCO1
0133028	0.4849881	9			
ENSG0000	-	2.3413983	3.03E-05	9.56E-04	RASSF5
0266094	1.5355396	2			
ENSG0000	0.8385897	5.4062715	3.03E-05	9.56E-04	RCCD1
0166965	5	4			
ENSG0000	-	6.2300585	3.06E-05	9.60E-04	TNFAIP2
0185215	1.1919291	4			
ENSG0000	-	6.5443302	3.09E-05	9.66E-04	ENY2
0120533	0.4835086	7			
ENSG0000	-	7.3706594	3.11E-05	9.70E-04	ABI1
0136754	0.4210567				
ENSG0000	1.1340751	7.1363332	3.13E-05	9.75E-04	MCM7
0166508	1	3			

ENSG0000	-	4.8264177	3.22E-05	1.00E-03	MITD1
0158411	0.5537815	5			
ENSG0000	2.7910364	4.9665693	3.24E-05	0.0010001	TACC3
0013810	5	7		2	
ENSG0000	-	4.9197822	3.25E-05	0.0010026	ACVRL1
0139567	1.7077637	4		3	
ENSG0000	-	8.9666098	3.33E-05	0.0010211	UBE2D3
0109332	0.5032953	6		9	
ENSG0000	-0.660195	5.9041824	3.43E-05	0.0010485	UBQLN1
0135018				6	
ENSG0000	-	5.0234205	3.45E-05	0.0010517	CREM
0095794	0.6743046	6			
ENSG0000	3.5442409	5.4241687	3.50E-05	0.0010607	CDCA3
0111665	3	5		4	
ENSG0000	1.3381913	3.7870693	3.50E-05	0.0010607	IMPDH2
0178035	2	4		4	
ENSG0000	-0.604748	5.9751199	3.51E-05	0.0010607	PRDM2
0116731		7		4	
ENSG0000	-	4.3344012	3.54E-05	0.0010675	CD68
0129226	1.0623428	3		4	
ENSG0000	1.9870553	6.5273140	3.58E-05	0.0010765	FOXM1
0111206	3	2		1	
ENSG0000	-	6.7258373	3.60E-05	0.0010780	MR1
0153029	1.0323924	7		9	
ENSG0000	-	5.4286739	3.66E-05	0.0010929	IFNAR2
0159110	0.6699115	8			
ENSG0000	2.0854748	4.1393080	3.68E-05	0.0010959	CENPW
0203760	8	8		6	
ENSG0000	2.5044148	4.8250387	3.72E-05	0.0011045	SPC24
0161888	2	1		7	
ENSG0000	1.4658591	6.2818507	3.87E-05	0.0011430	C19orf48
0167747	3	7		7	
ENSG0000	1.9618240	5.3248630	3.88E-05	0.0011441	CIP2A
0163507	5	8			
ENSG0000	-	6.3131431	4.09E-05	0.0012012	TXLNA
0084652	0.8166468	8			
ENSG0000	-	12.271957	4.12E-05	0.0012065	ENO1
0074800	0.6790536	8		5	
ENSG0000	3.1076285	4.3966172	4.13E-05	0.0012067	NCAPG2
0146918	2	2		7	
ENSG0000	0.9271084	4.5967938	4.26E-05	0.0012334	ARHGEF9
0131089	1	4		1	
ENSG0000	-	5.4202031	4.26E-05	0.0012334	FAM162A
0114023	1.2390409	5		1	

ENSG0000	-	6.0839903	4.26E-05	0.0012334	PCNX1
0100731	0.9330545	1		1	
ENSG0000	-	1.3428674	4.33E-05	0.0012479	SPAG4
0061656	1.8596278			5	
ENSG0000	0.5004497	6.4192066	4.37E-05	0.0012555	URI1
0105176	6	6		7	
ENSG0000	-	4.8489367	4.44E-05	0.0012732	SIDT2
0149577	1.4616402	9			
ENSG0000	-	6.5748876	4.51E-05	0.0012897	PDXK
0160209	0.6989711	4		2	
ENSG0000	1.4043312	5.3843745	4.66E-05	0.0013287	CEP78
0148019	1	2		9	
ENSG0000	-	2.8129866	4.74E-05	0.0013482	IGFLR1
0126246	1.5294163	3			
ENSG0000	1.614197	4.3684176	4.78E-05	0.001354	CENPL
0120334		2			
ENSG0000	-	5.3362443	4.86E-05	0.0013677	NMT1
0136448	0.8045885	9		7	
ENSG0000	2.0211124	8.8047018	4.85E-05	0.0013677	HSPB7
0173641	3	4		7	
ENSG0000	0.7552032	5.9851967	4.91E-05	0.0013749	PABIR2
0156504		9		8	
ENSG0000	-	7.1912964	4.91E-05	0.0013749	ECI2
0198721	0.5001588	6		8	
ENSG0000	0.6292012	6.6421399	5.21E-05	0.0014533	PPIP5K2
0145725	7	5		3	
ENSG0000	0.6088786	7.5109686	5.34E-05	0.0014858	SMPD4
0136699		8		9	
ENSG0000	1.7931975	4.7920742	5.51E-05	0.0015296	RAD51AP1
0111247	9	5		7	
ENSG0000	0.7199776	6.1098503	5.72E-05	0.0015842	R3HDM1
0048991	7	7		2	
ENSG0000	0.9524090	3.1413188	5.77E-05	0.0015911	DSTNP2
0248593	9	4		3	
ENSG0000	1.2926035	3.7805761	5.91E-05	0.0016258	HROB
0125319	8	9		9	
ENSG0000	0.3606479	7.0491699	5.93E-05	0.0016270	PPP3CB
0107758	4	3		2	
ENSG0000	-	4.8301239	5.97E-05	0.0016316	MSL3
0005302	0.9558704	1		7	
ENSG0000	-	7.5475415	5.98E-05	0.0016316	PTPRK
0152894	0.5279498			7	
ENSG0000	2.1882571	3.3326020	6.03E-05	0.0016413	HASPIN
0177602	6	6		8	

ENSG0000	-	5.4782136	6.18E-05	0.0016763	LGMN
0100600	1.1468068	7			
ENSG0000	0.5637437	4.3892961	6.37E-05	0.001718	MRPS25
0131368	2	1			
ENSG0000	-0.58995	7.2193220	6.36E-05	0.001718	HDAC7
0061273		1			
ENSG0000	-	5.5282890	6.39E-05	0.0017195	CDC42SE2
0158985	0.5640306	5		5	
ENSG0000	0.6233498	4.9122111	6.42E-05	0.0017224	ABHD11
0106077	2	1		8	
ENSG0000	-	5.6095201	6.58E-05	0.0017537	RILPL1
0188026	0.6985951	5		9	
ENSG0000	-	6.2834472	6.57E-05	0.0017537	TMUB2
0168591	0.4716825			9	
ENSG0000	1.9974715	3.8396226	6.64E-05	0.0017656	BRCA1
0012048		9		1	
ENSG0000	1.0751778	4.3570713	6.68E-05	0.0017695	SPSB2
0111671	8			4	
ENSG0000	0.4985399	8.4803790	6.69E-05	0.0017695	SETD7
0145391	7	6		4	
ENSG0000	1.4065672	4.5618925	6.72E-05	0.0017733	HMGB3
0029993		2		3	
ENSG0000	-	7.6993380	6.81E-05	0.0017921	ZNFX1
0124201	1.1128064	1		9	
ENSG0000	-	3.3571664	6.84E-05	0.0017932	PYCARD
0103490	1.3084033	8		2	
ENSG0000	0.8425788	6.6544075	6.93E-05	0.0018134	CAMTA2
0108509	4	5		8	
ENSG0000	0.5771551	11.122450	7.12E-05	0.0018570	RPL4
0174444	9	9		3	
ENSG0000	1.2057600	5.0124482	7.32E-05	0.0019054	RPA3
0106399	1	5		9	
ENSG0000	0.6746991	5.7755840	7.38E-05	0.0019155	SUGP2
0064607	1	5			
ENSG0000	-	2.9977760	7.50E-05	0.0019294	PCED1A
0132635	0.9686264	4		2	
ENSG0000	-	5.4202607	7.50E-05	0.0019294	FADS3
0221968	0.9203457	7		2	
ENSG0000	-	5.9572455	7.52E-05	0.0019294	BRWD1
0185658	0.5227702	2		2	
ENSG0000	-	8.2995155	7.49E-05	0.0019294	NT5E
0135318	0.4957152	7		2	
ENSG0000	1.7180072	4.8109899	7.56E-05	0.0019350	HYLS1
0198331	3	3		7	

ENSG0000	-	6.6524285	7.64E-05	0.0019506	SPPL2A
0138600	0.6056783	4		6	
ENSG0000	0.8505428	5.6181796	7.66E-05	0.0019509	CCP110
0103540	7	9		9	
ENSG0000	-	7.2035893	7.70E-05	0.0019560	NRSN2
0125841	0.6947189	3		6	
ENSG0000	0.5950703	4.4510386	7.76E-05	0.0019630	TMEM218
0150433	1	5		3	
ENSG0000	3.7904590	0.3194300	7.77E-05	0.0019630	RTKN2
0182010	2	6		3	
ENSG0000	3.8540226	4.8117598	7.85E-05	0.0019780	NCAPG
0109805	1	3		4	
ENSG0000	1.5282763	7.5252926	7.92E-05	0.0019902	HMGB2
0164104		6		1	
ENSG0000	1.1385085	5.3604741	8.39E-05	0.0020860	TBX15
0092607	4	3		1	
ENSG0000	1.1725794	5.8400987	8.39E-05	0.0020860	TMEM106
0134291	7	3		1	C
ENSG0000	-	7.7287967	8.38E-05	0.0020860	MOV10
0155363	0.6060857	2		1	
ENSG0000	-	3.188289	8.46E-05	0.0020936	BCL6
0113916	2.1506615			1	
ENSG0000	1.2075895	5.6481207	8.46E-05	0.0020936	PHF19
0119403	9	6		1	
ENSG0000	-	9.3074309	8.56E-05	0.0021110	ADAR
0160710	0.5200999			3	
ENSG0000	-	6.8257766	8.62E-05	0.0021203	ARHGEF11
0132694	0.5632569	5		7	
ENSG0000	2.0129108	5.8673372	8.68E-05	0.0021305	MYBL1
0185697	6	6			
ENSG0000	2.8892088	4.8355500	8.74E-05	0.0021394	KIF18B
0186185	4	6			
ENSG0000	2.1797796	6.1090886	8.76E-05	0.0021394	MCM5
0100297	9	9			
ENSG0000	-	4.5683791	8.82E-05	0.0021436	SLC25A28
0155287	1.0891668	9		8	
ENSG0000	-	7.0057696	8.82E-05	0.0021436	OTUB1
0167770	0.3650193	4		8	
ENSG0000	0.8008981	9.4259758	8.97E-05	0.0021750	RPLP0
0089157		9		7	
ENSG0000	1.8278166	4.8333378	9.09E-05	0.0021915	DBF4
0006634	7	7		2	
ENSG0000	1.1830373	4.5848408	9.07E-05	0.0021915	INTS7
0143493	2	3		2	

ENSG0000	0.5600596	5.4299516	9.14E-05	0.0021981	PPA2
0138777	4	7		6	
ENSG0000	1.7831208	6.8755228	9.36E-05	0.0022455	STMN1
0117632	2	5			
ENSG0000	0.6381820	6.8555001	9.52E-05	0.0022789	STEAP3
0115107	7	5		6	
ENSG0000	-	-0.281882	9.62E-05	0.0022954	GBP4
0162654	2.9005945			7	
ENSG0000	-0.769501	5.5814900	9.72E-05	0.0023141	PIGG
0174227		1		1	
ENSG0000	0.5711392	4.9697872	9.77E-05	0.0023158	PAQR3
0163291	2	1		6	
ENSG0000	1.0407184	5.7984828	9.77E-05	0.0023158	EZH2
0106462	5			6	
ENSG0000	1.1928175	3.6153839	9.97E-05	0.0023449	LRRC20
0172731	7	6		5	
ENSG0000	1.0827503	4.4905982	9.92E-05	0.0023449	AAAS
0094914	1	8		5	
ENSG0000	-	5.9210793	9.96E-05	0.0023449	PIK3C3
0078142	0.5134842	4		5	
ENSG0000	-0.537962	7.5891025	1.01E-04	0.0023809	ZNF532
0074657				9	
ENSG0000	0.5749907	5.0124059	1.02E-04	0.0023971	CPSF4
0160917	8	4		2	
ENSG0000	0.3592413	7.5016081	1.03E-04	0.0024001	PPP2R5C
0078304	5	3			
ENSG0000	-	5.3186643	1.03E-04	0.0024013	TSFM
0123297	0.6924213	3		6	
ENSG0000	-	2.9999444	1.04E-04	0.0024050	DHX58
0108771	0.9828141	5		7	
ENSG0000	-	0.4231811	1.04E-04	0.0024050	RUNX3
0020633	4.3898911	9		7	
ENSG0000	-	5.8646083	1.04E-04	0.0024050	OGA
0198408	0.6970777	1		7	
ENSG0000	0.4880232	6.2700001	1.04E-04	0.0024050	FUT8
0033170	1	3		7	
ENSG0000	-	6.9457048	1.08E-04	0.0024946	SERPING1
0149131	2.0524515	2		9	
ENSG0000	-	5.7076376	1.09E-04	0.0025117	GANC
0214013	0.6747731	3		1	
ENSG0000	-	5.2075803	1.12E-04	0.0025613	ZNF160
0170949	0.6155974	4			
ENSG0000	-	9.2312541	1.12E-04	0.0025625	CD164
0135535	0.4434461	2		6	

ENSG0000	-	5.4236671	1.13E-04	0.0025762	SP140L
0185404	0.4733006	8		2	
ENSG0000	-	4.2166795	1.14E-04	0.0025959	XAF1
0132530	0.8340629	1		2	
ENSG0000	0.4741351	6.8601679	1.15E-04	0.0026074	KDM1A
0004487	2	1		1	
ENSG0000	1.2342192	3.6373959	1.17E-04	0.0026363	FAM149A
0109794	1	1		8	
ENSG0000	-0.69218	7.0605219	1.17E-04	0.0026476	GPD2
0115159		9		6	
ENSG0000	-	3.4874323	1.19E-04	0.0026780	ZNF274
0171606	1.0854674	5		7	
ENSG0000	0.5048720	7.5279543	1.19E-04	0.0026780	MAZ
0103495	6	8		7	
ENSG0000	0.8257375	6.5054862	1.20E-04	0.0026954	RCC1
0180198	6	5		8	
ENSG0000	-	6.4458096	1.23E-04	0.0027460	PHLDB2
0144824	0.7152841	7		1	
ENSG0000	-	5.4377686	1.24E-04	0.0027764	GGT5
0099998	1.6001598	3		7	
ENSG0000	-	6.1341607	1.25E-04	0.0027912	SLIT2
0145147	1.4295558	5		7	
ENSG0000	-	5.4876195	1.27E-04	0.0028249	PRKCD
0163932	0.7711591	4		1	
ENSG0000	-	5.1392585	1.30E-04	0.0028697	NABP1
0173559	0.9615229			7	
ENSG0000	1.6562619	5.4229594	1.30E-04	0.0028700	INCENP
0149503	8			6	
ENSG0000	1.6046973	5.3405268	1.30E-04	0.0028700	TNFRSF19
0127863	5	3		6	
ENSG0000	-	4.2736912	1.31E-04	0.0028821	NPC1
0141458	0.8775046			9	
ENSG0000	-	6.7155453	1.31E-04	0.0028821	ADM
0148926	2.8525423	8		9	
ENSG0000	-	7.7008003	1.35E-04	0.0029457	EXOC7
0182473	0.4106938	3		7	
ENSG0000	-	3.7954557	1.37E-04	0.0029847	SCYL3
0000457	0.9124015	1		5	
ENSG0000	-	0.5695576	1.38E-04	0.0030030	C2
0166278	2.9192441	2		7	
ENSG0000	-	3.8461511	1.40E-04	0.0030446	ATXN7L1
0146776	1.2455752	8		8	
ENSG0000	-	3.2415674	1.41E-04	0.0030486	CHRD
0090539	2.0991102	3		9	

ENSG0000	1.1196946	7.8930068	1.41E-04	0.0030486	NSD2
0109685	7	1		9	
ENSG0000	1.9517828	3.9806259	1.41E-04	0.0030495	KIF24
0186638	3	2		3	
ENSG0000	2.8209530	3.8721514	1.41E-04	0.0030495	DLGAP5
0126787	4	3		3	
ENSG0000	-	5.6215086	1.43E-04	0.0030557	PAR3
0148498	0.7609341	5		2	
ENSG0000	-	6.5483496	1.42E-04	0.0030557	SNAPC3
0164975	0.5874643	4		2	
ENSG0000	-	9.4654443	1.43E-04	0.0030557	APP
0142192	0.3820755	7		2	
ENSG0000	0.6065541	5.5757192	1.44E-04	0.0030704	PRMT7
0132600	5	9		9	
ENSG0000	-	6.2928123	1.46E-04	0.0031159	VLDLR
0147852	0.9882399	8		4	
ENSG0000	-	5.5775403	1.49E-04	0.0031719	ATXN7
0163635	0.6164644	2		1	
ENSG0000	0.9838113	5.0656418	1.53E-04	0.0032434	TACC2
0138162	1	4		9	
ENSG0000	1.3212706	3.5466889	1.54E-04	0.0032435	RPA1
0132383	5	9			
ENSG0000	-	2.1894954	1.53E-04	0.0032435	TMEM229B
0198133	1.3186509				
ENSG0000	0.6219749	5.7922862	0.0001543	0.0032543	BANF1
0175334	3	2	9	8	
ENSG0000	-	7.1820173	1.55E-04	0.0032664	CHD8
0100888	0.5529715	4		6	
ENSG0000	-	5.2233071	1.56E-04	0.0032739	ADGRD1
0111452	1.3662931	1		2	
ENSG0000	-	7.8843718	1.57E-04	0.0032862	AP1M1
0072958	0.3407766	6		1	
ENSG0000	-	5.9212765	1.60E-04	0.0033337	C1GALT1
0106392	0.9703399	1		3	
ENSG0000	0.8940382	6.1737261	1.63E-04	0.0033942	NUP107
0111581	1	4			
ENSG0000	-	7.0482575	1.63E-04	0.0033942	UBQLN2
0188021	0.3645197	6			
ENSG0000	1.0377403	4.4302417	1.66E-04	0.0034489	MSTO1
0125459	2	7		8	
ENSG0000	0.8552592	4.1419681	1.67E-04	0.0034576	ELP6
0163832	8	1		2	
ENSG0000	-	2.6190061	1.70E-04	0.0035183	PHC3
0173889	1.6096834	1		9	

ENSG0000	0.3829055	9.3853509	1.75E-04	0.0036091	RPS7
0171863	2	6			
ENSG0000	0.4299586	5.9744468	1.77E-04	0.0036416	IPO11
0086200		3			
ENSG0000	-	8.5275881	1.78E-04	0.0036569	HIF1A
0100644	0.8496157	5		5	
ENSG0000	-	2.0831870	1.81E-04	0.0037082	ZDHHC23
0184307	0.8766272	7		9	
ENSG0000	0.8959713	3.5203030	1.82E-04	0.0037082	NDUFS8
0110717	1	9		9	
ENSG0000	1.7761672	4.5133017	1.82E-04	0.0037082	CCDC18
0122483	9	8		9	
ENSG0000	3.5190584	2.3059920	1.82E-04	0.0037082	PTTG1
0164611		4		9	
ENSG0000	1.1060077	3.1829856	1.88E-04	0.0038245	ZNF788P
0214189	9	8		9	
ENSG0000	-	6.1243375	1.90E-04	0.0038492	CNIH4
0143771	0.4151417	7		9	
ENSG0000	1.9279899	3.3077100	1.93E-04	0.0039025	CKS1B
0173207	6	3			
ENSG0000	-	7.0219558	1.95E-04	0.0039347	NLRC5
0140853	0.5787976	6		4	
ENSG0000	2.7001776	5.8321929	2.00E-04	0.0040192	KNL1
0137812	5	8		1	
ENSG0000	-1.698733	3.7038254	2.00E-04	0.0040192	INSIG1
0186480		9		1	
ENSG0000	2.5240934	4.0134112	2.02E-04	0.0040549	ARHGAP33
0004777	3	6		7	
ENSG0000	1.9682718	3.7265351	2.05E-04	0.0040964	ZGRF1
0138658	5	6			
ENSG0000	-	5.9119991	2.06E-04	0.0041084	MTHFR
0177000	1.1226234	9		4	
ENSG0000	-	5.4556312	2.09E-04	0.0041747	CYB5A
0166347	0.7727012	6		7	
ENSG0000	-	3.9116759	2.10E-04	0.0041809	IFI44L
0137959	0.8599518			8	
ENSG0000	-	5.5253224	2.12E-04	0.0042068	BNIP3L
0104765	1.0708513	2		2	
ENSG0000	-0.859314	3.4577066	2.13E-04	0.0042147	OSMR
0145623		2		2	
ENSG0000	3.0269563	4.4237579	2.15E-04	0.0042452	BIRC5
0089685	7	7		6	
ENSG0000	-	4.0804579	2.17E-04	0.0042803	SLC35C1
0181830	1.0478388			1	

ENSG0000	-	5.7565982	2.19E-04	0.0043102	SEMA4B
0185033	1.0078369	9		5	
ENSG0000	0.6453371	4.2392407	2.22E-04	0.0043460	ADAL
0168803	2	8		9	
ENSG0000	0.8508079	4.4375297	2.24E-04	0.0043746	CKLF
0217555	7	9		3	
ENSG0000	2.0393326	4.4655778	2.25E-04	0.0043875	SMC1A
0072501		2			
ENSG0000	2.4841868	4.1028110	2.29E-04	0.0044295	ZWINT
0122952	3	9		1	
ENSG0000	-	4.2646326	2.28E-04	0.0044295	SELPLG
0110876	1.0005703			1	
ENSG0000	-	5.5346061	2.29E-04	0.0044295	MYADM
0179820	1.1515411	8		1	
ENSG0000	-0.604475	8.0424720	2.28E-04	0.0044295	PSME2
0100911		5		1	
ENSG0000	-1.602167	5.3404993	2.30E-04	0.0044464	NAMPT
0105835		5		9	
ENSG0000	-	6.5204078	2.31E-04	0.0044537	KIAA1191
0122203	0.6262801	9		9	
ENSG0000	0.6205042	8.0488672	2.31E-04	0.0044543	RBMX
0147274		1		8	
ENSG0000	1.9681831	3.7705171	2.33E-04	0.0044786	PIF1
0140451	3	8		8	
ENSG0000	0.5138007	6.3915513	2.37E-04	0.0045410	ANAPC7
0196510	3	6		3	
ENSG0000	0.4289627	6.7607110	2.37E-04	0.0045410	EIF4E
0151247	9	8		3	
ENSG0000	2.1133285	3.8851607	2.38E-04	0.0045475	FANCI
0140525		1		4	
ENSG0000	-0.520997	7.5138441	2.45E-04	0.0046724	DOCK7
0116641		4		1	
ENSG0000	-	-	2.51E-04	0.0047784	RMI2
0175643	1.5693479	0.2098816		4	
ENSG0000	-	0.7517128	2.54E-04	0.0048256	IRF2
0168310	1.2589084	7			
ENSG0000	-	3.6697844	2.62E-04	0.0049630	KIAA1755
0149633	1.4633386	7		7	
ENSG0000	0.7193527	3.2527326	2.64E-04	0.0049907	GEMIN6
0152147	8			8	
ENSG0000	0.9695605	7.1685939	2.69E-04	0.0050751	ECT2
0114346	1	2		7	
ENSG0000	1.1101262	6.9956246	2.72E-04	0.0051196	MYH10
0133026	5	2		9	

ENSG0000	-	7.1855698	2.72E-04	0.0051196	SAMD9L
0177409	0.9608971	4		9	
ENSG0000	-	5.5486593	2.75E-04	0.0051425	CREBRF
0164463	1.0171201	5			
ENSG0000	-	7.3673147	2.74E-04	0.0051425	HEG1
0173706	1.0046082	3			
ENSG0000	-	2.7452799	2.79E-04	0.0052082	WHAMMP1
0223509	0.7678867	8		1	
ENSG0000	1.0859663	3.6425152	2.83E-04	0.0052754	DCXR
0169738	8	3		3	
ENSG0000	-	4.4817744	2.83E-04	0.0052754	CPEB4
0113742	1.0635303			3	
ENSG0000	-	8.0634779	2.91E-04	0.0054092	EMP1
0134531	0.6478226	2		6	
ENSG0000	0.4748603	5.4314437	2.93E-04	0.0054337	FBXO22
0167196	3	3		3	
ENSG0000	-	4.7610454	2.97E-04	0.0054967	CDS2
0101290	0.6526715	7		1	
ENSG0000	-	2.9253956	2.99E-04	0.0055269	PRXL2C
0158122	1.4207234	9		4	
ENSG0000	-	6.9999603	3.02E-04	0.0055620	PARP12
0059378	0.7404587	5		1	
ENSG0000	-	6.2646159	3.04E-04	0.0055828	MDK
0110492	1.2685543	5		8	
ENSG0000	-	9.3294026	3.04E-04	0.0055828	TNS1
0079308	0.5926845	7		8	
ENSG0000	0.978184	4.1295778	3.05E-04	0.0055904	COPS3
0141030		1		9	
ENSG0000	1.0673760	5.4805591	3.09E-04	0.0056584	CHEK1
0149554	7	7		7	
ENSG0000	-	6.2625409	3.12E-04	0.0056936	AFF1
0172493	0.6416188	3		3	
ENSG0000	0.8413618	4.4038166	3.14E-04	0.0057102	TMEM201
0188807		6		6	
ENSG0000	-	3.5455851	3.15E-04	0.0057105	IL1RL1
0115602	4.3014229	9		2	
ENSG0000	-	5.7174687	3.15E-04	0.0057105	LMCD1
0071282	1.5094043	6		2	
ENSG0000	-	2.9512991	3.17E-04	0.0057291	OAS3
0111331	1.2350012			2	
ENSG0000	-	6.3301305	3.18E-04	0.0057352	UBE2F
0184182	0.5659507	7		6	
ENSG0000	1.2117228	5.1168104	3.19E-04	0.0057448	BCL2L12
0126453	9	3		2	

ENSG0000	1.8761744	2.7651371	3.24E-04	0.0058249	RAD21
0164754	9			5	
ENSG0000	0.9163243	5.2629977	3.36E-04	0.0060184	NUDT1
0106268	4	8		1	
ENSG0000	-	7.3566874	3.36E-04	0.0060184	PLSCR3
0187838	0.4201881	9		1	
ENSG0000	0.9529534	3.8564499	3.37E-04	0.0060306	NFYB
0120837	1	9		3	
ENSG0000	-	6.1079416	3.41E-04	0.0060894	CSF1
0184371	1.0980719	8		5	
ENSG0000	-	1.5706617	3.42E-04	0.0060928	GPR146
0164849	2.2210958	4		6	
ENSG0000	-1.399152	4.4365941	3.44E-04	0.0061097	STXBP1
0136854		1		1	
ENSG0000	1.0690074	4.7723069	3.45E-04	0.0061097	MASTL
0120539	6	4		1	
ENSG0000	-0.638412	5.7540684	3.45E-04	0.0061097	PNPT1
0138035		6		1	
ENSG0000	3.8928283	7.3015588	3.48E-04	0.0061513	MKI67
0148773	7				
ENSG0000	1.8063990	5.1043620	3.59E-04	0.0063253	PSRC1
0134222	1	9			
ENSG0000	-0.654546	4.9238573	3.60E-04	0.0063253	C18orf25
0152242		6			
ENSG0000	0.7920067	6.4076285	3.61E-04	0.0063347	COL16A1
0084636	8			2	
ENSG0000	-	6.6871419	3.69E-04	0.0064568	TXNDC11
0153066	0.3413093	9		5	
ENSG0000	1.2096264	4.3769705	3.70E-04	0.0064663	MPHOSPH
0051825	3	1		5	9
ENSG0000	1.0987598	3.6231498	3.72E-04	0.0064977	GGCT
0006625	9	5		9	
ENSG0000	-	2.6524868	3.74E-04	0.0065081	TAF8
0137413	1.0481534	7		8	
ENSG0000	1.893832	1.8567619	3.74E-04	0.0065081	NR2C2AP
0184162		7		8	
ENSG0000	-0.300492	7.2763921	3.75E-04	0.0065081	WIPI2
0157954		1		8	
ENSG0000	0.7655169	6.9758685	3.76E-04	0.0065169	DUT
0128951	9	5		9	
ENSG0000	-	4.8698792	3.78E-04	0.0065377	TMEM106A
0184988	1.0076541	3		1	
ENSG0000	2.0549891	4.7193061	3.79E-04	0.0065448	RECQL4
0160957	4	4		2	

ENSG0000	-	3.1552427	3.80E-04	0.0065470	SGMS1
0198964	0.7071452	2		2	
ENSG0000	0.5170031	10.168452	3.83E-04	0.0065899	RPS3
0149273	8	7		6	
ENSG0000	1.4266576	6.2178846	3.90E-04	0.0067000	PLEKHG4
0196155	6	5		7	
ENSG0000	-0.467368	5.8596696	3.94E-04	0.0067443	SNAPC2
0104976		3			
ENSG0000	-	8.9069760	3.94E-04	0.0067443	NUCB1
0104805	0.6846355	7			
ENSG0000	-1.12832	4.3719248	3.96E-04	0.0067721	CIITA
0179583		5		1	
ENSG0000	1.3237796	3.7063723	4.01E-04	0.0068335	NCAPH2
0025770	8	1			
ENSG0000	1.6163503	4.3944564	4.01E-04	0.0068335	LIG1
0105486	5	3			
ENSG0000	-	3.2538072	4.12E-04	0.0069752	AKT3
0117020	1.2053685	2		8	
ENSG0000	-	5.8069989	4.12E-04	0.0069752	SLC2A1
0117394	1.5905379	1		8	
ENSG0000	1.5413397	3.9187510	4.14E-04	0.0070038	ACTL6A
0136518	2	7		6	
ENSG0000	-	3.6311634	4.19E-04	0.0070610	PARP11
0111224	0.9602589	8		7	
ENSG0000	0.3198241	6.2199176	4.24E-04	0.0071365	ATPAF1
0123472		6			
ENSG0000	1.6234989	5.7629872	4.28E-04	0.0071907	CENPO
0138092	4	3		9	
ENSG0000	1.3009242	4.7091414	4.30E-04	0.0072110	FIGNL1
0132436	5	2		9	
ENSG0000	-0.367873	5.3686603	4.34E-04	0.0072768	DUSP11
0144048		1		1	
ENSG0000	-0.431356	5.9152945	4.37E-04	0.0073088	HERPUD2
0122557		9		2	
ENSG0000	0.8028698	4.2773148	4.45E-04	0.0074296	METTL21A
0144401	8	6		7	
ENSG0000	-	-0.995845	4.47E-04	0.0074543	CALHM6
0188820	3.6137308			7	
ENSG0000	-	5.5124729	4.48E-04	0.0074595	MFSD12
0161091	0.5782878	7		2	
ENSG0000	-	8.1969821	4.54E-04	0.0075185	UTRN
0152818	0.6831768	2		9	
ENSG0000	-	7.5752901	4.53E-04	0.0075185	LSS
0160285	0.7323307	2		9	

ENSG0000	1.6492707	4.5855376	4.56E-04	0.0075409	WDR76
0092470	2	3		5	
ENSG0000	0.3177201	6.1782143	4.59E-04	0.0075834	MMGT1
0169446	9	2		9	
ENSG0000	0.5062623	5.2500803	4.61E-04	0.0075978	CEP43
0213066	3	6		6	
ENSG0000	2.6965601	2.8587985	4.61E-04	0.0075979	EXO1
0174371	2	5		1	
ENSG0000	-	7.9019920	4.63E-04	0.0076078	LRP10
0197324	0.5243649	6		3	
ENSG0000	0.4213745	8.8780329	4.64E-04	0.0076078	TKT
0163931	8	3		3	
ENSG0000	-	3.7725608	4.65E-04	0.0076156	ELF1
0120690	0.7760733			6	
ENSG0000	-	7.9565333	4.66E-04	0.0076156	COMT
0093010	0.4106551	8		6	
ENSG0000	0.3879017	5.3588332	4.68E-04	0.0076371	IFT46
0118096	3	2			
ENSG0000	0.5794137	10.148939	4.69E-04	0.0076404	RPL3
0100316		8		7	
ENSG0000	-	8.1397252	4.76E-04	0.0077467	SH3GLB1
0097033	0.5274302	8			
ENSG0000	0.9026989	4.5142139	4.81E-04	0.0078171	GPRASP2
0158301	8	9		6	
ENSG0000	0.9267819	4.4216790	4.83E-04	0.0078345	NABP2
0139579	3	4		7	
ENSG0000	0.6582301	5.0331217	4.90E-04	0.0079342	FAH
0103876	5	2		6	
ENSG0000	0.6434169	5.6230975	4.95E-04	0.0079977	KMT5A
0183955	8	3		9	
ENSG0000	1.9938737	1.6425727	5.02E-04	0.0081042	AEN
0181026	4	9		4	
ENSG0000	-	-	5.16E-04	0.0083154	CD38
0004468	5.3658377	0.0710744		8	
ENSG0000	1.6144598	5.8572321	5.19E-04	0.0083447	MELK
0165304	4	2		2	
ENSG0000	-	6.0412665	5.24E-04	0.0084065	TSPAN17
0048140	0.6352047	9		7	
ENSG0000	0.6182449	6.8126981	5.30E-04	0.0084839	RCN2
0117906		2		6	
ENSG0000	-	7.4674152	5.39E-04	0.0086157	ADPGK
0159322	0.6761784	2		1	
ENSG0000	-0.714093	5.0026205	5.41E-04	0.0086320	TCP11L1
0176148		2		7	

ENSG0000	-0.771327	5.5743806	5.48E-04	0.0087300	LMBR1L
0139636		6		1	
ENSG0000	-	2.0357035	5.52E-04	0.0087815	IKBKE
0263528	1.3324474	7			
ENSG0000	-	1.8316194	5.53E-04	0.0087815	ATF3
0162772	1.5819599				
ENSG0000	0.8490722	4.1273867	5.55E-04	0.0087885	ALKBH8
0137760	3	6		2	
ENSG0000	-	1.2727123	5.56E-04	0.0087885	COX10
0006695	1.3967074	1		2	
ENSG0000	0.3905117	6.5558646	5.54E-04	0.0087885	MAPK9
0050748		2		2	
ENSG0000	0.6262654	5.4407851	5.62E-04	0.0088523	HAUS4
0092036	5	9		7	
ENSG0000	-	5.9657797	5.61E-04	0.0088523	CLDN12
0157224	0.4875637			7	
ENSG0000	-	6.9897326	5.63E-04	0.0088581	ATG101
0123395	0.4946315			6	
ENSG0000	2.6407761	4.1387771	5.81E-04	0.0091253	CENPI
0102384	9	3		2	
ENSG0000	-	8.2382504	5.83E-04	0.0091370	FST
0134363	1.0802722	3		7	
ENSG0000	1.5843539	5.0291594	5.86E-04	0.0091649	PSMC3IP
0131470	2	3		1	
ENSG0000	0.5646353	9.4735606	5.86E-04	0.0091649	RPL7
0147604	6	1		1	
ENSG0000	-	6.6989029	5.92E-04	0.0092357	CCNDBP1
0166946	0.4199102	2		9	
ENSG0000	-	1.8719987	5.95E-04	0.0092636	ITGB8
0105855	2.5016259	7		8	
ENSG0000	-	5.8264703	5.98E-04	0.0092950	POLR2H
0163882	0.4563537	4		6	
ENSG0000	-	3.6428496	6.05E-04	0.0093893	PDP1
0164951	1.0476247	3		6	
ENSG0000	2.4540094	3.5472451	6.08E-04	0.0094081	CDKN3
0100526		9		1	
ENSG0000	0.8398751	5.1707377	6.14E-04	0.0094846	HSPA12A
0165868	2	1		8	
ENSG0000	-	5.9254005	6.16E-04	0.0095023	GGA3
0125447	0.5831653	6		1	
ENSG0000	-	6.1850733	6.19E-04	0.0095268	STAT5A
0126561	0.9402617	6		8	
ENSG0000	1.0807358	4.3211120	6.24E-04	0.0095934	C1orf112
0000460	9	7		3	

ENSG0000	-	2.8130262	6.29E-04	0.0096584	ZFP36L1
0185650	1.5213461	8		7	
ENSG0000	-	0.9365574	6.32E-04	0.0096903	GCA
0115271	1.7122909	5		2	
ENSG0000	-	8.0281639	6.33E-04	0.0096929	FAM126A
0122591	0.4886755	3		3	
ENSG0000	-	0.2733518	6.37E-04	0.0097034	TRPA1
0104321	2.1766489	9		3	
ENSG0000	0.5791562	6.7078404	6.37E-04	0.0097034	GAS2L1
0185340	8	2		3	
ENSG0000	0.4995763	9.1478612	6.36E-04	0.0097034	HNRNPL
0104824	3	4		3	
ENSG0000	-	4.2206052	6.51E-04	0.0098902	HEXD
0169660	0.7883114	3		2	
ENSG0000	-	7.0293283	6.51E-04	0.0098902	MIDN
0167470	0.5009328	1		2	
ENSG0000	0.5073036	5.7422805	6.53E-04	0.009893	SMARCD2
0108604	6	9			
ENSG0000	0.8551440	3.2132576	6.62E-04	0.0099637	ALKBH2
0189046	1	6		6	
ENSG0000	-	3.0497204	6.61E-04	0.0099637	APOBEC3
0239713	0.5649559	8		6	G
ENSG0000	-	5.1779543	6.60E-04	0.0099637	KDM4C
0107077	0.4463629	3		6	
ENSG0000	1.181195	5.7566857	6.59E-04	0.0099637	DDX11
0013573				6	
ENSG0000	-	4.6678050	6.65E-04	0.0100025	SLC15A3
0110446	1.0978773	4			
ENSG0000	-	9.8780545	6.70E-04	0.0100513	LIMA1
0050405	0.7003258	7		7	
ENSG0000	-	8.6075296	6.71E-04	0.0100513	TNIP1
0145901	0.7838002	2		7	
ENSG0000	1.4258162	3.5044209	6.73E-04	0.0100528	RFC5
0111445	6	3		4	
ENSG0000	0.5887543	6.8393082	6.72E-04	0.0100528	BRD8
0112983	3			4	
ENSG0000	-	2.6153344	6.75E-04	0.0100671	ZFYVE28
0159733	0.8965795	4		4	
ENSG0000	-	5.5898888	6.78E-04	0.0100950	DDX41
0183258	0.7860495	7		4	
ENSG0000	0.9481923	6.3347794	6.83E-04	0.0101526	MYO19
0278259	9	4		6	
ENSG0000	-	-	6.87E-04	0.0101932	ICAM4
0105371	2.2136234	0.3087845		7	

ENSG0000	-	5.9239441	6.87E-04	0.0101932	HIPK3
0110422	0.6654505	9		7	
ENSG0000	-	6.2906456	6.93E-04	0.0102530	TENT2
0164329	0.3603462			4	
ENSG0000	-	6.0679652	6.95E-04	0.0102688	AP3S1
0177879	0.4538017	1		6	
ENSG0000	-	7.5647749	6.96E-04	0.0102764	NSFL1C
0088833	0.3919799	3		4	
ENSG0000	2.9807353	4.5237506	7.02E-04	0.0103430	AURKB
0178999	9	5		6	
ENSG0000	0.6054154	5.4652281	7.04E-04	0.0103582	PRPSAP1
0161542	4			3	
ENSG0000	1.3368801	2.3020651	7.09E-04	0.0104092	PIM2
0102096	3	8		2	
ENSG0000	1.1914528	6.6624927	7.10E-04	0.0104092	FLRT2
0185070	9	6		2	
ENSG0000	-	2.6251787	7.19E-04	0.0105175	IL18R1
0115604	2.3229066	3		2	
ENSG0000	-	5.9726115	7.19E-04	0.0105175	PHF21A
0135365	0.6991199	5		2	
ENSG0000	0.3997765	7.2739156	7.21E-04	0.0105267	UBTF
0108312	2	9		4	
ENSG0000	0.9573976	5.4486104	7.26E-04	0.0105615	KIAA0586
0100578	6	5			
ENSG0000	-	4.7004265	7.27E-04	0.0105615	AIFM2
0042286	1.0746256	3			
ENSG0000	-	5.4297554	7.25E-04	0.0105615	SH2D4A
0104611	1.0041585	5			
ENSG0000	0.5381077	5.5761733	7.30E-04	0.0105942	MRPL34
0130312	5	4		8	
ENSG0000	-	0.6624776	7.33E-04	0.0105960	LAG3
0089692	3.9601646	7		4	
ENSG0000	-	5.6302829	7.33E-04	0.0105960	NUDCD1
0120526	0.6531176	3		4	
ENSG0000	4.4705469	0.7813016	7.33E-04	0.0105960	IQGAP3
0183856	5	3		4	
ENSG0000	-	4.0979209	7.36E-04	0.0106077	PPFIA4
0143847	1.9691362	2		9	
ENSG0000	0.5641848	5.5167187	7.37E-04	0.0106077	NUP37
0075188	9	1		9	
ENSG0000	-0.414207	7.0568248	7.40E-04	0.0106471	SUB1
0113387		2		3	
ENSG0000	0.8896346	3.7054228	7.44E-04	0.0106670	SPAG7
0091640	4	4		8	

ENSG0000	1.2647037	5.4675768	7.43E-04	0.0106670	STIL
0123473		5		8	
ENSG0000	-1.963072	3.4601128	7.51E-04	0.0107551	SLC39A8
0138821		5		5	
ENSG0000	-	-0.748402	7.52E-04	0.0107551	TLR2
0137462	6.3275008			5	
ENSG0000	-1.666126	2.8447473	7.65E-04	0.0109190	FLOT2
0132589		1		9	
ENSG0000	-	5.8378352	7.67E-04	0.0109268	TIA1
0116001	0.7018775	1		1	
ENSG0000	0.7912648	5.1773115	7.70E-04	0.0109641	RPGRIP1L
0103494	5	4		4	
ENSG0000	1.0510554	4.2123268	7.72E-04	0.0109740	TDP1
0042088	3	4		8	
ENSG0000	0.8231475	7.4154039	7.74E-04	0.0109863	PDGFC
0145431	3	3		4	
ENSG0000	0.7404945	7.68434	7.76E-04	0.0109903	RANBP1
0099901					
ENSG0000	-	7.2317897	7.77E-04	0.0109903	CCDC50
0152492	0.7234821	6			
ENSG0000	0.7666390	4.9432557	7.83E-04	0.0110602	CMTM4
0183723	5	6		2	
ENSG0000	-	5.9565336	7.85E-04	0.0110718	RNF146
0118518	0.4340512	2			
ENSG0000	-	3.2285728	7.86E-04	0.0110729	PHF11
0136147	0.7325393	8		6	
ENSG0000	1.5556850	1.5986260	7.88E-04	0.0110729	ZFP69B
0187801	1	1		6	
ENSG0000	-	5.9852894	7.89E-04	0.0110729	RNF111
0157450	0.5063524	9		6	
ENSG0000	0.7420160	4.8970002	7.95E-04	0.0111530	NFATC3
0072736	9	8		6	
ENSG0000	0.8019576	4.1048110	8.07E-04	0.0112871	MUTYH
0132781	7	9		1	
ENSG0000	-	8.3909559	8.07E-04	0.0112871	NUB1
0013374	0.6463927			1	
ENSG0000	-	6.5749796	8.17E-04	0.0114126	VEZT
0028203	0.4612972	2		7	
ENSG0000	-	2.0055175	8.21E-04	0.011436	PLEKHN1
0187583	1.4774711	5			
ENSG0000	1.4100067	2.1284075	8.22E-04	0.011436	ERF
0105722	9	5			
ENSG0000	-	7.7823343	8.25E-04	0.0114640	STAT2
0170581	0.6907347	6		7	

ENSG0000	1.6461672	6.6483959	8.32E-04	0.0115438	UHRF1
0276043	4	7			
ENSG0000	0.7091863	3.4993054	8.38E-04	0.0116174	LIAS
0121897	7	3		1	
ENSG0000	-	8.8909538	8.52E-04	0.0117955	SLC16A3
0141526	1.5430404	4		6	
ENSG0000	-0.282292	8.4645219	8.57E-04	0.0118399	SZRD1
0055070		8		4	
ENSG0000	-	5.7358605	8.59E-04	0.0118540	CTDP1
0060069	0.4171313	7		6	
ENSG0000	0.8974499	3.1232999	8.62E-04	0.0118770	RPL13P5
0240370	1	3		1	
ENSG0000	-	2.6678831	8.71E-04	0.0119609	TRIM25
0121060	1.2552096	7		1	
ENSG0000	-	6.1773414	8.70E-04	0.0119609	SQOR
0137767	0.9947593	6		1	
ENSG0000	-	5.2194400	8.73E-04	0.0119752	TRIM22
0132274	1.1227207	2		1	
ENSG0000	2.9216013	4.3487489	8.83E-04	0.0120613	UBE2T
0077152	3	3			
ENSG0000	-	5.0040004	8.84E-04	0.0120613	ADPRH
0144843	0.5540225	9			
ENSG0000	-	12.928792	8.84E-04	0.0120613	GAPDH
0111640	0.4685213	5			
ENSG0000	0.4452017	8.0527841	8.84E-04	0.0120613	HECTD1
0092148	4	8			
ENSG0000	0.7400797	4.2572345	8.93E-04	0.0121386	AGFG2
0106351	6	9		9	
ENSG0000	0.6184491	5.5689600	8.94E-04	0.0121386	TRIM16
0221926	5	1		9	
ENSG0000	0.4444418	9.0670003	8.93E-04	0.0121386	MORF4L2
0123562	9	8		9	
ENSG0000	-	3.4352261	9.07E-04	0.0123014	NHLRC3
0188811	1.1420749	8			
ENSG0000	0.4039067	6.5469085	9.12E-04	0.0123589	AKR7A2
0053371	8	8		1	
ENSG0000	1.8743212	1.5452937	9.18E-04	0.0124203	FBXO43
0156509	3	5		3	
ENSG0000	-	3.2049011	9.25E-04	0.0124996	WHAMMP3
0276141	1.0117771	1			
ENSG0000	-	6.6141049	9.30E-04	0.0125469	ZMIZ2
0122515	0.3940284	7		4	
ENSG0000	-	5.3767446	9.44E-04	0.0127178	HDHD5
0069998	0.5143713	3			

ENSG0000	-	4.3690243	9.51E-04	0.0127869	ZNF224
0267680	0.6708694	1		3	
ENSG0000	-	5.7657989	9.53E-04	0.0127869	WDR45
0196998	0.6507177	5		3	
ENSG0000	-	6.6749511	9.52E-04	0.0127869	PARP3
0041880	0.4522124	6		3	
ENSG0000	0.5076505	6.5410708	9.56E-04	0.0128038	MTMR6
0139505	8	6			
ENSG0000	0.4567770	7.0016350	9.59E-04	0.0128053	MAP3K3
0198909	2	1			
ENSG0000	0.3895469	9.4435097	9.59E-04	0.0128053	SERBP1
0142864	2	8			
ENSG0000	0.6869539	4.5278720	9.66E-04	0.0128826	KAT2A
0108773		3		4	
ENSG0000	-	3.2775732	9.69E-04	0.0129063	LRIF1
0121931	0.7541939	5		3	
ENSG0000	-	5.5961320	9.74E-04	0.0129583	UBE2B
0119048	0.4121021	8		9	
ENSG0000	-	2.1284980	9.78E-04	0.0129888	ZNF462
0148143	1.1303732	7		6	
ENSG0000	0.6473365	6.2721192	9.82E-04	0.0130297	POLE3
0148229	9	5		3	
ENSG0000	1.2629594	4.6871094	9.86E-04	0.0130408	TEDC1
0185347	2			3	
ENSG0000	-0.88285	5.7733867	9.86E-04	0.0130408	RAB10
0084733		8		3	
ENSG0000	0.3795598	7.2984652	9.88E-04	0.0130462	HDAC2
0196591	4	5		1	
ENSG0000	0.5451488	8.9079123	9.89E-04	0.0130462	IPO5
0065150	7	4		1	
ENSG0000	0.4532597	4.5645468	0.0010009	0.0131654	TRIM24
0122779	9	8	5		
ENSG0000	0.3559894	6.5915383	0.0010004	0.0131654	MRPS27
0113048	3	2	7		
ENSG0000	0.7044343	8.8388447	0.0010032	0.0131779	SHMT2
0182199	9	8	8	1	
ENSG0000	-	8.4141643	0.0010075	0.0132152	CNBP
0169714	0.3335651	8			
ENSG0000	0.5278076	4.0765320	0.0010129	0.0132677	DNAAF2
0165506	5	3		9	
ENSG0000	0.5925699	5.4388625	0.0010300	0.0134743	ANAPC15
0110200	4	7	9	6	
ENSG0000	0.6179242	6.6267759	0.0010327	0.0134904	ZNF664
0179195	2	8	3	9	

ENSG0000	0.8533479	3.8164619	0.0010457	0.0136413	PTPDC1
0158079	8		1	8	
ENSG0000	2.6472470	3.1464962	0.0010476	0.0136484	CENPF
0117724	5	4	8	8	
ENSG0000	0.5827008	7.7673087	0.0010496	0.0136549	MAP3K20
0091436	4	5	1	1	
ENSG0000	-	5.6026800	0.0010524	0.0136730	BCL10
0142867	0.4200272	9	3	5	
ENSG0000	1.3378083	4.6926897	0.0010625	0.0137852	WDHD1
0198554	2	8	2	9	
ENSG0000	-0.944712	2.6658793	0.0010651	0.0138009	ZNF433
0197647		9	7	5	
ENSG0000	0.5108085	8.1641764	0.0010671	0.0138081	GPX8
0164294	3	5	7	2	
ENSG0000	1.2544066	2.5001384	0.0010730	0.0138472	C16orf95
0260456	4	7	9	7	
ENSG0000	-	6.1131302	0.0010718	0.0138472	XPR1
0143324	0.4687453	6	8	7	
ENSG0000	-	3.8444425	0.0010776	0.0138869	BTBD9
0183826	1.0575991	4	2		
ENSG0000	0.8129823	3.6504560	0.0010800	0.0138991	ZNF692
0171163	1	3	3	8	
ENSG0000	-	2.7033388	0.0010907	0.0140182	SYNPO
0171992	1.7583009	8	5	6	
ENSG0000	-	3.2378718	0.0011007	0.0141272	DCUN1D3
0188215	1.1036546	5	1		
ENSG0000	-	5.6127939	0.0011023	0.0141288	DNAAF9
0088854	0.5765069		1	5	
ENSG0000	1.6277903	5.8275806	0.0011102	0.0142109	SORBS2
0154556	4	7			
ENSG0000	-	4.0637401	0.0011248	0.0143788	TMEM170A
0166822	0.7850617	1	3	7	
ENSG0000	0.9217831	3.1296934	0.0011405	0.0145608	EFCAB11
0140025	9	8	9	5	
ENSG0000	0.4459784	5.8369326	0.0011539	0.0147121	GTF2A2
0140307	5	4	8		
ENSG0000	-0.586246	5.9648606	0.0011676	0.0148664	PRKD2
0105287		9	5	7	
ENSG0000	0.9431421	4.9672542	0.0011730	0.0149155	DIS3L
0166938	7	3	6	1	
ENSG0000	-	5.9566337	0.0011867	0.0150694	KDM3A
0115548	0.6718942	9	4	1	
ENSG0000	0.9453956	3.1972194	0.0012017	0.0152390	KRT10-AS1
0167920	8	8		4	

ENSG0000	-	0.1207288	0.0012052	0.0152579	PCLO
0186472	3.8940825		6	6	
ENSG0000	0.6345049	4.5654901	0.0012063	0.0152579	CABLES2
0149679	4	3	8	6	
ENSG0000	-	7.4414529	0.0012137	0.0153305	SPTLC2
0100596	0.6363417	2	3	4	
ENSG0000	-	5.5048153	0.0012243	0.0153875	CYTH1
0108669	0.6544484	2		8	
ENSG0000	-	5.5407098	0.0012246	0.0153875	ABCC3
0108846	1.2253141	3	9	8	
ENSG0000	0.3719572	7.0587905	0.0012220	0.0153875	PHKB
0102893	7	5	6	8	
ENSG0000	0.2942462	7.0996011	0.0012242	0.0153875	AKR1A1
0117448	5	8	7	8	
ENSG0000	0.5695871	5.5852939	0.0012307	0.0154233	SRSF8
0263465	1	8	7	3	
ENSG0000	0.7095881	9.2366625	0.0012302	0.0154233	DDR2
0162733	9		4	3	
ENSG0000	-	8.1949299	0.0012539	0.0156938	IFITM2
0185201	1.5141493	7	9		
ENSG0000	-	8.5825044	0.0012569	0.0157097	VEGFA
0112715	0.6141406	7	1	1	
ENSG0000	3.6381828	3.2922526	0.0012691	0.0158043	UBE2C
0175063	2	8	4	4	
ENSG0000	0.7634649	5.1141069	0.0012694	0.0158043	C20orf27
0101220	9	9	4	4	
ENSG0000	-	4.5272512	0.0012684	0.0158043	PNRC1
0146278	0.9313295	2	3	4	
ENSG0000	0.7908342	4.2836556	0.0012951	0.0160823	GCAT
0100116	6	7	4		
ENSG0000	-0.90625	4.2380464	0.0013028	0.0161487	SYTL3
0164674		3	1	6	
ENSG0000	0.3511727	4.8964784	0.0013055	0.0161487	CETN3
0153140	7	2	6	6	
ENSG0000	1.0666870	6.8881532	0.001304	0.0161487	TLN2
0171914	5	4		6	
ENSG0000	-	4.0361753	0.0013087	0.0161668	EIF2AK2
0055332	1.4321377	5	2	3	
ENSG0000	0.4893860	7.0337534	0.0013111	0.0161755	PTP4A1
0112245	2	1	2	5	
ENSG0000	-	2.2044840	0.0013206	0.0162725	CFB
0243649	2.1031875	6	9	8	
ENSG0000	0.8855095	2.6055202	0.0013254	0.0163095	ZNF575
0176472	3	4		8	

ENSG0000	3.6241881	2.3017675	0.0013275	0.0163148	E2F8
0129173	2	3	4	8	
ENSG0000	-	5.6498244	0.0013310	0.0163370	MED17
0042429	0.3965622	8	5	7	
ENSG0000	-	6.6251379	0.0013443	0.0164785	UBR2
0024048	0.3780613	8			
ENSG0000	1.0168760	3.4227302	0.0013475	0.0164966	CEP83
0173588	5		1	4	
ENSG0000	-	5.9501552	0.0013623	0.0166505	DENND5A
0184014	0.8989879	8	5	1	
ENSG0000	0.3437282	7.7820582	0.0013635	0.0166505	PABPN1
0100836	1	9	7	1	
ENSG0000	-	5.9318051	0.0013759	0.0167804	WDR55
0120314	0.3419594	7	7	7	
ENSG0000	-	4.1126730	0.0013808	0.0167895	ENO2
0111674	1.2597445	7	1	7	
ENSG0000	0.5131849	6.1821546	0.0013805	0.0167895	MCUR1
0050393		7	4	7	
ENSG0000	1.0479809	4.6408759	0.0013819	0.0167895	CXCL1
0163739	4	3	9	7	
ENSG0000	-	3.2135715	0.0013896	0.0168611	PLSCR4
0114698	1.3063646		4	1	
ENSG0000	0.2527543	6.9851935	0.0014010	0.0169777	UBE2G1
0132388	5	8	4	8	
ENSG0000	0.3686507	5.1850087	0.0014126	0.0170811	RNF168
0163961		3	4	5	
ENSG0000	0.4784437	6.1445372	0.0014131	0.0170811	SAP130
0136715	5	4	4	5	
ENSG0000	-	7.4624338	0.0014210	0.0171548	TLE5
0104964	0.7254047	2	4	6	
ENSG0000	0.4157924	6.9197229	0.0014265	0.0172001	FAM168A
0054965		8	9		
ENSG0000	-	2.6574640	0.0014309	0.0172309	ELL2
0118985	1.5448079	5	5	3	
ENSG0000	-	5.8554415	0.0014340	0.0172467	TICAM1
0127666	0.5487884	4	7	1	
ENSG0000	-0.633183	6.0700213	0.0014472	0.0173837	RBMS3
0144642		7	8	9	
ENSG0000	-	4.6343289	0.0014693	0.0176135	LARP4
0161813	1.0161394	8	6	4	
ENSG0000	-	2.6959013	0.0014762	0.0176647	ZXDA
0198205	0.6564262	6	2	3	
ENSG0000	1.4847316	2.9743418	0.0014877	0.0177798	TMEM116
0198270	3	9	1	5	

ENSG0000	0.4424645	7.2650894	0.0015050	0.0179643	TNPO2
0105576	7	2	3	7	
ENSG0000	-	2.8104276	0.0015132	0.0180401	SLC37A1
0160190	1.2311738		6		
ENSG0000	0.9069054	3.2163335	0.0015406	0.0183441	WDR12
0138442	4	3	8	3	
ENSG0000	2.6620761	1.7057684	0.0015478	0.0184059	CDC25C
0158402	4	1		2	
ENSG0000	2.7438409	4.0186796	0.0015521	0.0184346	GAS2L3
0139354	7	4	4		
ENSG0000	2.0648718	3.9007715	0.0015555	0.0184517	GPSM2
0121957	2	3	2	9	
ENSG0000	2.9854243	2.6525975	0.0015592	0.0184724	CENPU
0151725	2			8	
ENSG0000	1.8897952	3.3090375	0.0015706	0.0185851	LACTB2
0147592	7	1	6	4	
ENSG0000	-	6.9550839	0.001573	0.0185898	MRAS
0158186	0.5627907	7		7	
ENSG0000	-	10.542387	0.0015794	0.0186431	SULF1
0137573	1.5935937	7	7	9	
ENSG0000	0.5079494	7.8605165	0.0015833	0.0186664	PCM1
0078674	3	8	9	1	
ENSG0000	1.1158423	4.9939901	0.0015911	0.0187120	TUB
0166402	4	4	8	1	
ENSG0000	0.3752265	5.4279774	0.0015907	0.0187120	ERGIC2
0087502	2	9	6	1	
ENSG0000	-	1.9260196	0.0016111	0.0189241	TMEM255B
0184497	1.8195749	5	9	1	
ENSG0000	-	3.1422228	0.0016327	0.0191534	ANKRD44
0065413	1.0356749	3	2	1	
ENSG0000	0.8727725	7.9153221	0.0016373	0.0191838	DNMT1
0130816	5	1	3	5	
ENSG0000	-	8.2835446	0.0016584	0.0193835	SPAG9
0008294	0.5531067	4	3	9	
ENSG0000	-	7.3453861	0.0016814	0.0196290	ARNTL2
0029153	0.8375109	8	9	4	
ENSG0000	1.7466157	4.2939946	0.0017132	0.0199757	FANCA
0187741	2	2	8	3	
ENSG0000	1.1399841	2.2243932	0.0017212	0.0199951	OSGEPL1
0128694	2	7	3	8	
ENSG0000	-	3.2347933	0.0017200	0.0199951	CLDN7
0181885	1.7466306	5	7	8	
ENSG0000	0.5876179	6.8999846	0.0017176	0.0199951	TACC1
0147526		1	8	8	

ENSG0000	-	4.9016705	0.0017295	0.0200561	TRIB2
0071575	0.9381168	3	4	9	
ENSG0000	0.5016594	5.8460282	0.0017327	0.0200561	IDI1
0067064	4	5	8	9	
ENSG0000	-	9.0706331	0.0017322	0.0200561	HK1
0156515	0.6964168	3	5	9	
ENSG0000	1.6028894	2.3841891	0.0017367	0.0200781	MSTO2P
0203761	9	6	9	7	
ENSG0000	-	6.4607239	0.0017396	0.0200864	TMEM45A
0181458	0.8345364	3		4	
ENSG0000	-	2.6246750	0.0017443	0.0201169	EEF1AKMT
0123427	0.9832948	4	6	9	3
ENSG0000	1.3238797	4.7665023	0.0017479	0.0201344	PRKDC
0253729	9	7	8		
ENSG0000	-	7.5353502	0.0017647	0.0203035	RAB11FIP5
0135631	0.3413781	4	8	3	
ENSG0000	-	0.2666617	0.0017856	0.0205188	RRAD
0166592	2.0716664	7	5	1	
ENSG0000	0.6425126	4.7281533	0.0018047	0.0207136	SPA17
0064199	6	3	7	8	
ENSG0000	-0.758696	9.7697089	0.0018090	0.0207382	LMO7
0136153		7	8	3	
ENSG0000	0.7667554	4.4983896	0.0018201	0.0208404	SARS1
0031698	3	3	9	8	
ENSG0000	0.7805553	4.5199804	0.0018329	0.0209615	SKA2
0182628	6	5	6	8	
ENSG0000	2.1304482	4.0766498	0.0018455	0.0210797	TROAP
0135451	6	8		1	
ENSG0000	0.4904842	5.3288097	0.0018496	0.0211014	PEX2
0164751		8	1	3	
ENSG0000	0.4553459	6.1112815	0.0018932	0.0215730	LAS1L
0001497	1	6	1	6	
ENSG0000	1.4204417	3.7612812	0.0019103	0.0216903	ADRB2
0169252	5		6	3	
ENSG0000	0.8343752	4.0954619	0.0019125	0.0216903	HSPA2
0126803	3	8	8	3	
ENSG0000	0.6683988	6.7069356	0.0019096	0.0216903	THOP1
0172009	5	5		3	
ENSG0000	-	6.5261035	0.0019063	0.0216903	ARHGEF7
0102606	0.3395154	2	5	3	
ENSG0000	-	4.6184182	0.0019163	0.0217072	FAM47E-
0272414	0.9307556	2	5	7	STBD1
ENSG0000	-	6.6508230	0.0019288	0.0218229	HIRA
0100084	0.3895081	9	4	1	

ENSG0000	0.5970138	4.9099129	0.0019474	0.0220077	USP46
0109189			9	8	
ENSG0000	0.5562751	5.6367098	0.0019569	0.0220621	IFT122
0163913		6	2	6	
ENSG0000	-	7.0932775	0.0019564	0.0220621	LDLR
0130164	1.0332193		6	6	
ENSG0000	1.8482925	2.1602017	0.0019650	0.0221097	BCL2
0171791	4	5	7		
ENSG0000	0.4715529	5.2235648	0.0019680	0.0221097	SDR39U1
0100445	7	5	9		
ENSG0000	0.5471115	9.9436867	0.0019661	0.0221097	HNRNPA1
0135486	7	9	7		
ENSG0000	1.8329664	3.3587697	0.0019778	0.0221669	CENPK
0123219	1	6	3	7	
ENSG0000	1.8068765	3.3395979	0.0019777	0.0221669	CCDC34
0109881	7	3	9	7	
ENSG0000	-	4.2339779	0.0019858	0.0222311	COQ8B
0123815	0.8736269	7	8	9	
ENSG0000	-	5.8473794	0.0019912	0.0222654	ARHGAP17
0140750	0.4471074	5	7		
ENSG0000	-	1.3253015	0.0020038	0.0223280	ZC3H12A
0163874	1.3403598	6	9	4	
ENSG0000	0.4680519	6.9923248	0.0020038	0.0223280	FDPS
0160752	4	6	6	4	
ENSG0000	-	9.3636584	0.0020023	0.0223280	CAST
0153113	0.3904555	7		4	
ENSG0000	-	4.9488951	0.0020312	0.0226066	LACTB
0103642	0.7698606	6	6	8	
ENSG0000	0.6730519	7.9346443	0.0020489	0.0227771	SH3D19
0109686	8	9	7	7	
ENSG0000	1.1776494	6.9947535	0.0020608	0.0228828	NEGR1
0172260	9	1	7		
ENSG0000	-	6.8320017	0.0020731	0.0229919	SIN3B
0127511	0.3641549	5		4	
ENSG0000	-0.411491	7.9878833	0.0020762	0.0230004	CALCOCO
0136436		2	8	2	2
ENSG0000	-	8.7227127	0.0020842	0.0230621	PRRC2C
0117523	0.2455592	9	7	7	
ENSG0000	1.7513260	3.1605906	0.0020889	0.0230869	XRCC2
0196584	4	3	2	7	
ENSG0000	0.7158060	3.7155953	0.0020968	0.0231475	SPATA33
0167523	7	9	3		
ENSG0000	-	3.4364422	0.0021003	0.0231600	ZBTB47
0114853	2.4155254	5	8	1	

ENSG0000	1.0180970	3.4309132	0.0021044	0.0231781	CCDC28B
0160050	6	6	5	3	
ENSG0000	-	5.1127744	0.0021118	0.0232322	MDGA1
0112139	1.2328976			5	
ENSG0000	-	2.7158830	0.0021186	0.0232812	ARHGAP20
0137727	1.7918017	1	9		
ENSG0000	1.5788717	3.4384170	0.0021342	0.0233977	CIT
0122966	7	1		4	
ENSG0000	-	6.8950666	0.0021336	0.0233977	PLAGL1
0118495	0.6338546	6	9	4	
ENSG0000	-	5.2097264	0.0021507	0.0235522	STX7
0079950	0.4035184	5	5	2	
ENSG0000	0.9687188	6.7393407	0.0021691	0.0237261	TSC22D1
0102804	9	9	2	2	
ENSG0000	1.5463101	2.3597042	0.0022028	0.0240308	ZNF530
0183647	4	9	9	9	
ENSG0000	0.9745177	8.8734655	0.0022045	0.0240308	PHGDH
0092621	2		3	9	
ENSG0000	-	2.1836240	0.0022236	0.0242113	RBM22
0086589	1.1836279	4	2	7	
ENSG0000	-	-	0.0022697	0.0246577	TNFAIP6
0123610	1.6897587	0.9628665	8	3	
ENSG0000	0.5905565	6.9139234	0.0022834	0.0247775	IFRD2
0214706	5	8		1	
ENSG0000	1.4957479	2.0490268	0.0023006	0.0248663	GLDC
0178445	6	6	1	7	
ENSG0000	-0.599639	4.0165458	0.0023036	0.0248663	RNF115
0265491		7	5	7	
ENSG0000	-	5.5036050	0.0023002	0.0248663	SLC25A25
0148339	0.3522313	1	4	7	
ENSG0000	-	6.8621015	0.0023020	0.0248663	STXBP5
0164506	0.4389923	2	9	7	
ENSG0000	-	6.7395770	0.0023046	0.0248663	SIK3
0160584	0.4749793	3	1	7	
ENSG0000	-	4.8711701	0.0023091	0.0248876	DGKH
0102780	0.8620137		9	8	
ENSG0000	-	6.2759019	0.0023163	0.0249367	TYMP
0025708	0.8846903	1	6	4	
ENSG0000	0.4913095	5.1411417	0.0023314	0.0250710	NIF3L1
0196290	4		5	1	
ENSG0000	1.3923212	4.0217495	0.0023499	0.025241	NLE1
0073536	2		1		
ENSG0000	-	3.278226	0.0023647	0.0253720	SLC43A2
0167703	1.0596565		7	9	

ENSG0000	-	6.3574308	0.0023770	0.0254751	BOC
0144857	1.2105173	7	4		
ENSG0000	-	2.1490813	0.0023917	0.0255466	CFAP251
0158023	1.5903285	2	3		
ENSG0000	-	3.5985363	0.00239	0.0255466	FAM20A
0108950	2.5078032	9			
ENSG0000	-	4.538042	0.0023877	0.0255466	RAB5IF
0101084	0.6719883		3		
ENSG0000	-	6.7132843	0.0023988	0.0255944	ZNF655
0197343	0.3796945	6	9	5	
ENSG0000	1.6074953	3.8240138	0.0024206	0.0257685	PDE1A
0115252	7	5	1	2	
ENSG0000	0.4749782	6.8723746	0.0024205	0.0257685	PSMC5
0087191	3	7	2	2	
ENSG0000	1.0479017	2.7250726	0.0024295	0.0258350	CYP2R1
0186104	5	7	6	6	
ENSG0000	0.3242000	7.4314167	0.002454	0.0260659	ZMYND11
0015171	5	8		3	
ENSG0000	0.3180729	6.8121820	0.0024644	0.0261476	PTGR1
0106853	2	7	3	4	
ENSG0000	-0.647095	6.6979151	0.0025281	0.0267937	GCC2
0135968			3	1	
ENSG0000	-	4.1130335	0.0025332	0.0268179	HARS1
0170445	1.2109574	9	3	5	
ENSG0000	0.5692572	4.5934429	0.0025364	0.0268225	NDUFB6
0165264	4	9	7	5	
ENSG0000	0.3870412	5.2144888	0.0025592	0.0270330	RPUSD3
0156990	1	8	1	3	
ENSG0000	1.0049827	5.0468640	0.0025638	0.0270525	PAN2
0135473	8	5	9	3	
ENSG0000	0.6924914	3.4688987	0.0025688	0.0270754	ZNF184
0096654	5	2	9	6	
ENSG0000	-	6.8372365	0.0025974	0.0273464	TMEM127
0135956	0.2462589	6	7	2	
ENSG0000	0.5935730	7.0788651	0.0026322	0.0276815	LSM4
0130520	1	9		9	
ENSG0000	0.6683855	7.3282761	0.0026599	0.0279428	BUB3
0154473	3	6	7	1	
ENSG0000	-	5.1160504	0.0026764	0.0280819	DUSP22
0112679	0.4679208	9	4	2	
ENSG0000	-	6.1679515	0.0026790	0.0280819	NDUFA9
0139180	0.3515638	5	9	2	
ENSG0000	0.5194058	6.2177375	0.0027357	0.0286438	PSMG1
0183527	1	5		4	

ENSG0000	1.4326305	5.1175052	0.0027574	0.0288403	SMC2
0136824	6	3	9	8	
ENSG0000	1.4170434	2.3453536	0.0027682	0.0289212	MPP4
0082126		6	5	6	
ENSG0000	0.8809789	4.6445373	0.0027883	0.0290993	RMI1
0178966	5	3	4		
ENSG0000	-	4.4657387	0.0027985	0.0291740	TBC1D22B
0065491	0.4071567	3	6	3	
ENSG0000	1.3409942	5.0703115	0.0028092	0.0292534	MMS22L
0146263	7	6	4	5	
ENSG0000	-	3.3534882	0.0028243	0.0293149	NECAP2
0157191	1.0418414	9	5	3	
ENSG0000	-	4.1707816	0.0028204	0.0293149	PFKFB3
0170525	1.6524508	3	3	3	
ENSG0000	-	4.7164625	0.0028224	0.0293149	YIPF1
0058799	0.5345942	5	2	3	
ENSG0000	0.4127650	6.4921508	0.0028316	0.0293585	COX5A
0178741	4	8	3	6	
ENSG0000	0.7585191	5.6689187	0.0028617	0.0296228	TAF6
0106290	2	9	3	9	
ENSG0000	0.3599599	6.8066909	0.0028633	0.0296228	LUC7L3
0108848	2	7	3	9	
ENSG0000	-	1.1704552	0.0028839	0.0298037	MEFV
0103313	2.6022708	6	3	8	
ENSG0000	-	1.3348386	0.0028943	0.0298794	ACOT4
0177465	1.4374733	6	9	4	
ENSG0000	-	2.8018327	0.0028976	0.0298804	CAND2
0144712	1.4653332	2	1	1	
ENSG0000	-	5.9320407	0.0029034	0.0299085	TTC7A
0068724	0.4490306	9	7	5	
ENSG0000	1.1461092	1.8623871	0.0029226	0.0300092	EPOR
0187266	5		7	6	
ENSG0000	-	1.6547119	0.0029192	0.0300092	H2BC4
0180596	1.5843358	5	6	6	
ENSG0000	-	7.2533795	0.0029216	0.0300092	BBX
0114439	0.5164023	6	1	6	
ENSG0000	-	5.5696776	0.0029295	0.0300151	SIKE1
0052723	0.3863375	2	3	4	
ENSG0000	-	5.8893808	0.0029274	0.0300151	EPS8L2
0177106	0.5558933		5	4	
ENSG0000	0.7669527	3.5991176	0.0029876	0.0305454	TSEN2
0154743	5	7	8		
ENSG0000	0.4533323	5.2234965	0.0029869	0.0305454	DCAKD
0172992		5	1		

ENSG0000	-	3.3901650	0.0030156	0.0307987	RAB5C
0108774	0.7792724	1	9	5	
ENSG0000	0.3402004	6.7615211	0.0030246	0.0308572	PTDSS1
0156471	1		5	2	
ENSG0000	0.4105881	5.0531219	0.0030380	0.0308635	MRRF
0148187	2	4	3	5	
ENSG0000	0.2584885	6.4926126	0.0030378	0.0308635	NDUFB11
0147123		4	2	5	
ENSG0000	0.3553117	9.6450513	0.0030382	0.0308635	RPS27A
0143947	5	4		5	
ENSG0000	-0.522933	8.5345614	0.0030358	0.0308635	H1-0
0189060		2	1	5	
ENSG0000	-	4.0239792	0.0030519	0.0309697	TRIM13
0204977	0.5368453			8	
ENSG0000	1.3417591	3.8777995	0.0030722	0.0311431	LINC02693
0212719	3	7	4	6	
ENSG0000	1.3550875	5.6948847	0.0030869	0.0312594	CKAP2
0136108	9	6	9	7	
ENSG0000	-	8.8807403	0.0030931	0.0312887	RND3
0115963	0.8943425	9	6	7	
ENSG0000	-	6.6035516	0.0030976	0.0313007	DNAJB2
0135924	0.4717398		2		
ENSG0000	-	4.4483617	0.0031130	0.0313574	CDC42SE1
0197622	0.5960682	6	9	5	
ENSG0000	0.9423527	5.1980289	0.0031073	0.0313574	CDK4
0135446	2	1	4	5	
ENSG0000	2.6354895	1.3618412	0.0031128	0.0313574	SLC25A10
0183048	8	8	8	5	
ENSG0000	-	7.9843730	0.0031222	0.0314165	TMEM50A
0183726	0.5625555	1	4	4	
ENSG0000	1.9181975	2.5147294	0.0031462	0.0316250	APOBEC3B
0179750	6	4	7	1	
ENSG0000	0.5048838	5.5159554	0.0031527	0.0316563	TBC1D4
0136111	7			2	
ENSG0000	-	5.0206929	0.0031601	0.0316866	USP15
0135655	0.8235888	2	9		
ENSG0000	0.7285646	7.0268962	0.0031623	0.0316866	PDE1C
0154678	8		6		
ENSG0000	2.1708263	2.4586738	0.0031961	0.031992	PASK
0115687	3	7	8		
ENSG0000	-	5.0414527	0.0032135	0.0321324	PARP14
0173193	1.2831553	9	8	3	
ENSG0000	-	6.3219987	0.0032348	0.0323110	VRK2
0028116	0.3133782	1	2	1	

ENSG0000	1.2308931	6.1254920	0.0032551	0.0324801	KNSTRN
0128944	5	5	6	9	
ENSG0000	1.3174321	6.0250936	0.0032799	0.0326936	UBE2S
0108106	2	2	8	2	
ENSG0000	1.4961517	3.7821201	0.0032891	0.0327251	SUV39H2
0152455	8	2	4	1	
ENSG0000	3.8260083	2.2052427	0.0032915	0.0327251	CDK1
0170312	3	6	1	1	
ENSG0000	-	7.1102919	0.0032934	0.0327251	CBLB
0114423	0.6489991	3	2	1	
ENSG0000	0.3685413	5.0068290	0.0033029	0.0327856	MALSU1
0156928	2	2	5	9	
ENSG0000	-	0.4495518	0.0033071	0.0327935	ARID3A
0116017	2.4105502	9	7	1	
ENSG0000	3.3371387	4.5317482	0.0033144	0.0328316	HMMR
0072571	2	6	6	7	
ENSG0000	-	5.5163201	0.0033779	0.0334263	TMEM219
0149932	0.5298631	4	9	3	
ENSG0000	1.0407083	3.5748974	0.0034115	0.0337233	KIF22
0079616	8	9	3		
ENSG0000	0.6110167	6.2100857	0.0034234	0.0337709	MTMR2
0087053	6	3	3	9	
ENSG0000	-	7.1841375	0.0034211	0.0337709	NT5C2
0076685	0.5813659	2	3	9	
ENSG0000	-0.39917	5.6215087	0.0034429	0.0339284	ZNF646
0167395		3	5	9	
ENSG0000	-	1.8985738	0.0034656	0.0339512	RICTOR
0164327	1.4751122	8		1	
ENSG0000	-1.664726	2.108959	0.0034662	0.0339512	LYN
0254087			9	1	
ENSG0000	-	3.3611874	0.0034580	0.0339512	FBXL20
0108306	0.7073695	8	8	1	
ENSG0000	-1.304379	4.0331279	0.0034643	0.0339512	IL1R1
0115594		5	9	1	
ENSG0000	-	5.2904771	0.0034665	0.0339512	SNX11
0002919	0.4505786	2	9	1	
ENSG0000	-	8.6559888	0.0034658	0.0339512	CTNND1
0198561	0.2699544	7	7	1	
ENSG0000	-	5.9092555	0.0034772	0.0340202	DMTF1
0135164	0.4341743	8		9	
ENSG0000	0.6926842	5.2482825	0.0034807	0.0340203	NSUN5P1
0223705	9		7	9	
ENSG0000	-0.62637	5.9430075	0.0034878	0.0340546	HEBP2
0051620		1	5	7	

ENSG0000	0.5820094	3.8651358	0.0035026	0.0341544	MRPS24
0062582	4	6	8	1	
ENSG0000	0.4456496	5.2894946	0.0035052	0.0341544	PIGU
0101464	5	1	2	1	
ENSG0000	1.9521719	2.4543979	0.0035184	0.0342401	TEDC2
0162062	7	3	4	3	
ENSG0000	-	4.50466	0.0035211	0.0342401	FAM126B
0155744	0.7497348		9	3	
ENSG0000	-	0.6268448	0.0035283	0.0342746	SH3D21
0214193	1.6203341	5	3	9	
ENSG0000	-	4.3276265	0.0035324	0.0342795	OAS1
0089127	1.7558184	7	2	5	
ENSG0000	-	8.0795045	0.0035415	0.0343328	DLGAP4
0080845	0.2948768	2	1	7	
ENSG0000	-	4.2496512	0.0035557	0.0344362	N4BP1
0102921	0.7975174	7	8	1	
ENSG0000	-	3.5590230	0.0035716	0.0345551	ABCC9
0069431	0.6572476	5	7	2	
ENSG0000	0.4163296	6.8704082	0.0035756	0.0345582	CHD3
0170004	3	9	2	7	
ENSG0000	0.6821176	5.0155795	0.0035881	0.0346317	SNRNP25
0161981	1	4	3	3	
ENSG0000	0.5651845	5.2653775	0.0035904	0.0346317	CDAN1
0140326	7	6	7	3	
ENSG0000	-	5.9936515	0.0035989	0.0346785	RPS6KC1
0136643	0.4610662	4	6	5	
ENSG0000	0.3954533	7.355086	0.0036187	0.0348343	NIN
0100503	1		7	1	
ENSG0000	1.0653128	2.5611699	0.0036311	0.0348452	CEP295
0166004	6	4	2	7	
ENSG0000	-	0.9679337	0.0036345	0.0348452	SLC66A1L
0174899	1.1516313			7	
ENSG0000	-	6.1117683	0.0036261	0.0348452	VAPB
0124164	0.3372669	2	4	7	
ENSG0000	1.0760234	7.6352970	0.0036344	0.0348452	ROBO1
0169855	9	9	5	7	
ENSG0000	0.426132	5.4684886	0.0036390	0.0348540	TAF12
0120656		4	7	6	
ENSG0000	-	3.7123345	0.0036705	0.0351201	PLEKHA4
0105559	1.0133955	7	3	6	
ENSG0000	-	7.3496670	0.003684	0.0352137	NADK
0008130	0.3375512	4		5	
ENSG0000	1.2101931	2.4948038	0.0037047	0.0353770	TMEM120B
0188735	7	3	9	6	

ENSG0000	0.7815174	6.4807829	0.0037245	0.0355300	NOP56
0101361	8	5	3	1	
ENSG0000	-1.119762	0.4544634	0.0037435	0.0356624	PSMB8
0204264		2	7	7	
ENSG0000	0.4561685	5.1937318	0.0037458	0.0356624	AHI1
0135541	4	1	9	7	
ENSG0000	0.6682924	3.7261931	0.0037627	0.0357672	LSM7
0130332		4	7	4	
ENSG0000	0.5323097	9.8760471	0.0037643	0.0357672	RPS6
0137154	7	2	8	4	
ENSG0000	-	1.8892221	0.0037820	0.0358543	CPTP
0224051	1.1658967	5	5		
ENSG0000	1.3710821	4.4810725	0.0037885	0.0358543	HLTF
0071794	1	8	6		
ENSG0000	-	6.4723907	0.0037874	0.0358543	GRIPAP1
0068400	0.2868086		3		
ENSG0000	-1.23921	6.8170254	0.0037806	0.0358543	SCARB2
0138760		1	4		
ENSG0000	-	3.8781825	0.0038313	0.0361877	SMG1P1
0237296	1.1643637	7	7		
ENSG0000	0.9906629	4.7418937	0.0038307	0.0361877	GRK6
0198055	7	9	7		
ENSG0000	0.7806879	6.2741192	0.0038575	0.0363984	ZBTB4
0174282	3	2		7	
ENSG0000	1.7379035	6.8134824	0.0038625	0.0364098	MCM4
0104738	8	8	2	6	
ENSG0000	0.6743788	3.8213922	0.0038672	0.0364186	PPM1D
0170836	6	4	7	6	
ENSG0000	-	1.7375612	0.0039130	0.0367409	TENT4B
0121274	1.5229557	5	3	3	
ENSG0000	0.8390022	7.2092443	0.0039056	0.0367409	PSIP1
0164985	6	9	6	3	
ENSG0000	0.2948533	8.2599256	0.0039106	0.0367409	HNRNPH3
0096746	7	6	2	3	
ENSG0000	-	2.5195862	0.0039280	0.0367731	SERPINB1
0021355	1.4801016	6	2	8	
ENSG0000	-	3.1556809	0.0039208	0.0367731	INSIG2
0125629	1.2613124	6	5	8	
ENSG0000	0.5705277	4.2116980	0.0039263	0.0367731	N6AMT1
0156239	7	3	3	8	
ENSG0000	0.6119037	4.3477397	0.0039339	0.0367930	PYGO1
0171016	9	2	9	3	
ENSG0000	-	4.1646960	0.0039743	0.0371341	ANGPTL1
0116194	1.4945876	9	5	6	

ENSG0000	1.1645761	5.6764465	0.0039793	0.0371446	SLC22A23
0137266	9	2	7	5	
ENSG0000	1.0464722	3.1705870	0.0039909	0.0372161	ENOPH1
0145293	6	3	2		
ENSG0000	-	6.3582744	0.004001	0.0372736	CCNL1
0163660	0.7269406	4		7	
ENSG0000	0.4224818	5.1148033	0.0040135	0.0373541	BCCIP
0107949	9	4	4		
ENSG0000	2.7222560	-0.102582	0.0040221	0.0373974	EVI2A
0126860	9		1	1	
ENSG0000	0.8579825	4.1040919	0.0040290	0.0374257	MITF
0187098	6	6	7		
ENSG0000	-	2.2212387	0.0040617	0.0376925	SLC26A11
0181045	1.2774128	7	5	3	
ENSG0000	-	6.8630828	0.0040687	0.0377204	CELF1
0149187	0.4478529	8		3	
ENSG0000	-	3.7177225	0.0040752	0.0377442	CTDSP2
0175215	0.9865604	4	3	7	
ENSG0000	-	6.7436471	0.0041066	0.0379987	RSF1
0048649	0.4726247	2	9	9	
ENSG0000	1.9879391	3.2179303	0.0041475	0.0383395	C21orf58
0160298	2	6	2		
ENSG0000	0.6583136	4.0598942	0.0041727	0.0383920	KRT10
0186395	2	7	1	9	
ENSG0000	0.7649805	3.9319606	0.0041642	0.0383920	NFIA
0162599	9	3	4	9	
ENSG0000	-	1.9373116	0.0041691	0.0383920	SCO2
0284194	1.1468653	4	2	9	
ENSG0000	-	6.0269056	0.0041733	0.0383920	BCAR1
0050820	0.7958939	9	2	9	
ENSG0000	-	6.2876021	0.0041673	0.0383920	GORASP1
0114745	0.3669023	6	3	9	
ENSG0000	2.2692844	3.2880077	0.0041842	0.0384553	PKMYT1
0127564	6	1	2	3	
ENSG0000	-	3.0433733	0.0042009	0.0385721	AGRN
0188157	1.1027142	4	6	3	
ENSG0000	0.9698731	5.1257367	0.0042135	0.0386132	PSPH
0146733	5	9	3	4	
ENSG0000	-	3.8537317	0.0042131	0.0386132	MTMR9LP
0220785	1.0087315	9	2	4	
ENSG0000	-	-	0.0042178	0.0386154	IFITM1
0185885	4.8614494	1.4298944	1	4	
ENSG0000	-	8.6304766	0.0042320	0.0387084	TBC1D9B
0197226	0.2935562	1	3	4	

ENSG0000	0.9125493	5.9103466	0.0042454	0.0387944	WASF3
0132970	6		9	7	
ENSG0000	0.9322156	4.9055459	0.0042529	0.0388250	CNTROB
0170037	9	1	1	8	
ENSG0000	-0.814862	7.9538257	0.0042592	0.0388453	CAMK2D
0145349		3		9	
ENSG0000	-	4.7062426	0.0042674	0.0388837	NOL3
0140939	0.5074982	1	8	4	
ENSG0000	1.1022451	4.4558189	0.0042912	0.0390633	CEP131
0141577	3		9	9	
ENSG0000	1.0501136	3.6198425	0.0043118	0.0391754	TIMM9
0100575	8	7		1	
ENSG0000	0.7969112	3.7505032	0.0043097	0.0391754	GAS8
0141013	9	5	6	1	
ENSG0000	1.1439030	3.5234283	0.0043335	0.0392952	DPH5
0117543	5	2	4	8	
ENSG0000	0.5881238	4.0840102	0.0043337	0.0392952	ALG3
0214160	8	8	4	8	
ENSG0000	0.6570722	5.1759772	0.0043373	0.0392952	RGS12
0159788	2	4	4	8	
ENSG0000	-	6.3026992	0.0043985	0.0398117	DAB2
0153071	1.0193327	9	1	2	
ENSG0000	0.2856740	7.6936299	0.0044038	0.0398221	ATP5PB
0116459	1	1	3	1	
ENSG0000	-	7.3709159	0.0044180	0.0399125	GNB1
0078369	0.5320895	2	1	9	
ENSG0000	-	8.3890259	0.0044333	0.0400133	TAX1BP1
0106052	0.4162943		6	9	
ENSG0000	-	6.6730444	0.0044710	0.0402776	SRGAP1
0196935	0.5078186	3	7	3	
ENSG0000	-	6.1109192	0.0044686	0.0402776	TNFRSF14
0157873	0.4866119	2	3	3	
ENSG0000	-	7.7738389	0.0045012	0.0405115	TNFAIP3
0118503	0.8308741	1	8	1	
ENSG0000	0.7406505	3.5219813	0.0045369	0.0407938	SPIN3
0204271	7	6	2	2	
ENSG0000	-0.892752	7.1430026	0.0045533	0.0409032	PDPN
0162493		4	7	4	
ENSG0000	0.3425881	9.1566556	0.0045700	0.0410144	RPS15A
0134419		9	4	1	
ENSG0000	1.3244725	3.0006137	0.0045818	0.0410546	NETO2
0171208	3	2		1	
ENSG0000	-	-	0.0045902	0.0410546	CARD16
0204397	3.1775936	0.0270144	9	1	

ENSG0000	-	2.9623864	0.0045917	0.0410546	PRR5
0186654	1.1435803	6	2	1	
ENSG0000	0.4264692	4.9824798	0.0045857	0.0410546	THAP7
0184436	6	9	6	1	
ENSG0000	1.3600059	4.1753579	0.0046036	0.0411227	DBF4B
0161692		4	5	9	
ENSG0000	0.6053116	3.6607192	0.0046165	0.0411994	AHRR
0063438	3	4	4		
ENSG0000	-	6.4954556	0.0046222	0.0412114	GON4L
0116580	0.3633204	8	1	6	
ENSG0000	0.4596948	3.8769953	0.0046364	0.0412632	PGBD1
0137338	7	8	3	8	
ENSG0000	0.5322728	6.5757090	0.0046409	0.0412632	DDX46
0145833	3	7	8	8	
ENSG0000	-	7.0307528	0.0046409	0.0412632	KDM5B
0117139	0.4339902	3	8	8	
ENSG0000	0.4231010	5.8556073	0.0046660	0.0414473	MYL6B
0196465	7	4	3	8	
ENSG0000	0.30119	8.1491362	0.0046843	0.0415716	EIF4G3
0075151		2	8	7	
ENSG0000	-	1.3795837	0.0047286	0.0418184	SLC2A5
0142583	3.4372865	1	9	1	
ENSG0000	1.3896674	4.3102580	0.0047339	0.0418184	RAD51
0051180	7	6	3	1	
ENSG0000	-0.818673	4.6632089	0.0047250	0.0418184	MKRN1
0133606		2	8	1	
ENSG0000	0.3787369	9.7033073	0.0047340	0.0418184	RPS23
0186468	9	6	8	1	
ENSG0000	-	7.1498610	0.0047434	0.0418621	PI4K2A
0155252	0.2450548	5	1		
ENSG0000	-	4.6354874	0.0047854	0.0421943	OSBPL2
0130703	0.6904816	8	8	8	
ENSG0000	0.6019983	4.0397445	0.0048019	0.0423008	ZNF76
0065029	5	8	8	3	
ENSG0000	0.7707179	3.0745443	0.0048584	0.0427198	KCTD9
0104756	6		9	3	
ENSG0000	0.3256573	7.0409164	0.0048542	0.0427198	OLA1
0138430	8	3		3	
ENSG0000	-	3.8986082	0.0048708	0.0427495	TRAF1
0056558	1.6871274	9	3	6	
ENSG0000	0.8172616	7.6882452	0.0048675	0.0427495	KITLG
0049130	2	2	2	6	
ENSG0000	0.3473636	7.957589	0.0048853	0.0427983	QARS1
0172053	3		5	8	

ENSG0000	0.3658300	7.7910699	0.0048849	0.0427983	PRMT1
0126457	9	3	8	8	
ENSG0000	-	2.8973315	0.0049050	0.0429312	LHFPL6
0183722	0.6490983	1	2	8	
ENSG0000	-	0.9550562	0.0049216	0.0429637	FAM124A
0150510	0.8386761	2	6	8	
ENSG0000	1.6431573	3.5733538	0.0049134	0.0429637	KNTC1
0184445	9	9	9	8	
ENSG0000	-	7.3964018	0.0049222	0.0429637	STIM1
0167323	0.3461838	1	3	8	
ENSG0000	-	3.6185010	0.0049385	0.0430142	TANK
0136560	0.5090748	3	5	3	
ENSG0000	0.9317632	4.5787064	0.0049415	0.0430142	CHML
0203668	5	8	2	3	
ENSG0000	-	5.2830956	0.0049394	0.0430142	ACBD5
0107897	0.8852205	1	6	3	
ENSG0000	-	4.1241890	0.0049605	0.0431400	PDK1
0152256	0.8945363	2		8	
ENSG0000	-	5.4402004	0.0049685	0.0431707	RALGDS
0160271	0.7402462	7	5	6	
ENSG0000	2.5379620	3.6377958	0.0049826	0.0431806	GGH
0137563	6		4		
ENSG0000	0.8112972	5.0037134	0.0049903	0.0431806	TMEM138
0149483	9	3	9		
ENSG0000	0.3315181	6.0006384	0.0049879	0.0431806	ZCCHC17
0121766	8	3	7		
ENSG0000	0.7148728	6.894905	0.0049922	0.0431806	SACS
0151835	1		9		
ENSG0000	-	9.6343951	0.0049861	0.0431806	MYL12A
0101608	0.6960501	6	2		
ENSG0000	-	4.0321435	0.0050073	0.0432319	FAM135A
0082269	0.6932613	1	9	8	
ENSG0000	1.0484705	6.0116223	0.0050118	0.0432319	JADE1
0077684	5	2	1	8	
ENSG0000	-	8.6061226	0.0050104	0.0432319	TMEM59
0116209	0.5608047	2	9	8	
ENSG0000	0.9563563	3.1135544	0.0050410	0.0433667	MAST2
0086015	6	7	6	4	
ENSG0000	-	5.5335480	0.0050381	0.0433667	CYBC1
0178927	0.6299669	4		4	
ENSG0000	0.4878072	6.6657638	0.0050551	0.0434485	QSER1
0060749	2	8	2	2	
ENSG0000	0.3584499	4.7789455	0.0050720	0.0434764	PHKG2
0156873	5	6	2	2	

ENSG0000	0.5902846	5.5929987	0.0050712	0.0434764	MAP3K4
0085511	3	8	4	2	
ENSG0000	0.3051064	6.8930764	0.0050661	0.0434764	HBS1L
0112339	8	8	1	2	
ENSG0000	0.8642604	4.6450610	0.0050876	0.0435326	DDX39A
0123136	8	8	9	1	
ENSG0000	-	5.6262743	0.0050864	0.0435326	COPZ1
0111481	0.5059619	9	9	1	
ENSG0000	-	9.6453108	0.0051039	0.0436323	MYL12B
0118680	0.5166581	3	2	4	
ENSG0000	-	8.2565843	0.0051225	0.0437525	RBPJ
0168214	0.8021644	9	6		
ENSG0000	0.6625351	4.0565045	0.0051419	0.0438787	BCS1L
0074582	4	1	3	6	
ENSG0000	1.4977149	0.7758401	0.0051527	0.0439314	ALG14
0172339	3	9			
ENSG0000	1.2711056	1.5286244	0.0051741	0.0440752	CMTM1
0089505	7	4	9	3	
ENSG0000	-	3.7543663	0.0051791	0.0440780	CBLL1
0105879	0.7447006		3	2	
ENSG0000	1.4607826	3.1516805	0.0052066	0.0442730	SMIM30
0214194	5	3	9	6	
ENSG0000	0.8434703	4.5561454	0.0052171	0.0443224	CAD
0084774	1	1	4	8	
ENSG0000	-	6.0973045	0.0052248	0.0443483	ZMYM3
0147130	0.4273334	9	2	1	
ENSG0000	0.4414338	4.8844140	0.0052419	0.0444538	RABEPK
0136933	4	8	2	6	
ENSG0000	-0.549237	9.2297737	0.0052530	0.0445088	PKM
0067225		7	6	2	
ENSG0000	0.4922802	7.6671492	0.0052586	0.0445170	TCP1
0120438	2	3	9	5	
ENSG0000	-	6.9232805	0.0052967	0.0447992	CD74
0019582	1.0836838		2	5	
ENSG0000	0.3897719	6.8848491	0.0053125	0.0448937	CUTA
0112514	5	6	9	7	
ENSG0000	-	-0.451455	0.0053583	0.0452402	MT1F
0198417	1.3932706		3	2	
ENSG0000	-	9.3325497	0.0053800	0.0453835	LOX
0113083	0.9472862	6	6	5	
ENSG0000	0.5423449	4.1133276	0.0053924	0.0454481	C7orf25
0136197	6	6	7	3	
ENSG0000	1.7913749	2.1746005	0.0054215	0.0456524	RAB7B
0276600	2	9		8	

ENSG0000	0.7637481	3.3881776	0.0054498	0.0457699	RIN1
0174791	7	4	3	7	
ENSG0000	-	5.68341	0.0054408	0.0457699	GRAMD1B
0023171	0.9705185		9	7	
ENSG0000	0.5510633	9.1682365	0.0054483	0.0457699	FUS
0089280	7	1	9	7	
ENSG0000	-0.420141	6.9712957	0.0054852	0.0460271	SFXN3
0107819		5	7	3	
ENSG0000	-	3.5885698	0.0055054	0.0461151	TNFSF13
0161955	0.5149917		2	7	
ENSG0000	-	7.0469380	0.0055041	0.0461151	CALCOCO
0012822	0.8216808	2	2	7	1
ENSG0000	2.2250860	1.5470945	0.0055528	0.0464719	DDX12P
0214826	9	3	9	6	
ENSG0000	-	5.6882524	0.0056075	0.0468883	EXD2
0081177	0.3507463	9	4		
ENSG0000	-	8.1471381	0.0056189	0.0469422	GLUL
0135821	0.7098024	4	2	9	
ENSG0000	1.5701494	3.4061127	0.0056318	0.0470011	XRCC3
0126215	1	8	1	5	
ENSG0000	-	2.7403463	0.0056358	0.0470011	RMC1
0141452	1.1531912	4	1	5	
ENSG0000	-	3.4831932	0.0056572	0.0471391	PTPRE
0132334	0.7151183	1	9	4	
ENSG0000	-	5.4278425	0.0056821	0.0473052	SLC8B1
0089060	0.3681488	8	8	8	
ENSG0000	-	6.1934769	0.0057151	0.0475386	LPIN1
0134324	0.3564058	1	9	6	
ENSG0000	0.6212707	3.4438126	0.0057422	0.0477219	CCDC51
0164051	2		2		
ENSG0000	-	0.3585310	0.0057679	0.0478936	NOD2
0167207	2.0708964	7	1	8	
ENSG0000	0.9168481	3.4607788	0.0057735	0.0478987	TTLL5
0119685	8		3	6	
ENSG0000	0.6782484	3.3512832	0.0057922	0.0479460	ZFPL1
0162300	6	2	5	6	
ENSG0000	-	4.7257278	0.0057943	0.0479460	MFSD8
0164073	0.5848744	8		6	
ENSG0000	-	6.250697	0.0057938	0.0479460	ERO1A
0197930	1.0800739		2	6	
ENSG0000	0.3415852	5.3769864	0.0058072	0.0480116	METTL5
0138382	2	3	6	7	
ENSG0000	0.5886607	6.3621433	0.0058242	0.0481103	RNF167
0108523	7		2		

ENSG0000	0.2780973	6.9569119	0.0058603	0.0483283	ANAPC13
0129055	4	7	1	8	
ENSG0000	-	7.1690847	0.0058607	0.0483283	OTUD5
0068308	0.2220238	2	5	8	
ENSG0000	2.6877620	2.2391875	0.0058799	0.0484451	GIN53
0181938	2	4	8	2	
ENSG0000	-	4.7775672	0.0058957	0.0485197	RECK
0122707	0.7407072	4	6	8	
ENSG0000	-	4.7869319	0.0058992	0.0485197	XPNPEP1
0108039	0.8449883	8		8	
ENSG0000	1.1110189	2.9432205	0.0059353	0.0487750	ARRB2
0141480	6	2	5	9	
ENSG0000	-	3.8495192	0.0059469	0.0488241	DVL3
0161202	0.7492211	2	1	4	
ENSG0000	0.3920007	7.4427641	0.0059515	0.0488241	JDP2
0140044	3	1	4	4	
ENSG0000	-	6.6761636	0.0059616	0.0488650	TINF2
0092330	0.3235153	6	5	6	
ENSG0000	0.3901193	10.080398	0.0059751	0.0489337	RPL17
0265681	3	9	6	6	
ENSG0000	0.4187566	5.1919251	0.0060211	0.0492259	PNKD
0127838	3	3	4		
ENSG0000	0.6055906	5.6047652	0.0060209	0.0492259	HTRA2
0115317		1	4		
ENSG0000	0.8492227	4.9569505	0.0060273	0.0492348	PITPNM1
0110697	4	5	9	6	
ENSG0000	-	4.3458806	0.0060447	0.0493344	ACOX3
0087008	0.5373902	5	5	4	
ENSG0000	1.8658363	4.1878419	0.0060524	0.0493549	CHTF18
0127586	1	2	2	1	
ENSG0000	-	2.7056740	0.0060651	0.0494166	SEMA4D
0187764	0.8841275	3	7	8	
ENSG0000	0.5986270	5.0577518	0.0061124	0.0497595	PILRB
0121716	3	3	7	8	
ENSG0000	1.3263890	2.3327148	0.0061361	0.0498582	SLC29A1
0112759	5		6	8	
ENSG0000	1.4149238	1.7413524	0.0061330	0.0498582	FSCN1
0075618	8	5	4	8	
ENSG0000	-0.754718	5.0745431	0.0061402	0.0498582	P2RX4
0135124		2	6	8	
ENSG0000	0.616439	3.6014707	0.0061580	0.0499180	MCM9
0111877		9	8	9	
ENSG0000	-	4.2300194	0.0061540	0.0499180	B3GALNT1
0169255	0.7918206		3	9	

ENSG0000	2.1188282	2.0563994	0.0061854	0.0500549	PRIM1
0198056	7	8	5	9	
ENSG0000	-	0.7265257	0.0061833	0.0500549	HAPLN1
0145681	4.7121438	8	6	9	
ENSG0000	0.3725224	5.0628830	0.0061967	0.0501040	UBIAD1
0120942	6	9	7	8	
ENSG0000	-	1.2798807	0.0062153	0.0501269	SSR4P1
0235374	0.9068291		4	3	
ENSG0000	0.5647867	4.0946864	0.0062060	0.0501269	MMAB
0139428	7	3	8	3	
ENSG0000	-	7.8502612	0.0062138	0.0501269	RAB5B
0111540	0.2867485	3	1	3	
ENSG0000	-	2.1379527	0.0062315	0.0501443	CMTR1
0137200	0.9016454	4	7	3	
ENSG0000	0.9664692	5.0011992	0.0062228	0.0501443	COMMD4
0140365		9	1	3	
ENSG0000	-	8.2108037	0.0062332	0.0501443	CLIP2
0106665	0.5111815		5	3	
ENSG0000	-	2.7799564	0.0062394	0.0501517	EID3
0255150	0.7069584	1	2	1	
ENSG0000	-	4.0648986	0.0062453	0.0501572	TLR4
0136869	1.1211362	1	6	6	
ENSG0000	3.4591689	3.3557666	0.0062672	0.0502485	ASPM
0066279	9	1	5	2	
ENSG0000	-	2.3543728	0.0062620	0.0502485	TGM2
0198959	1.9314601	8	3	2	
ENSG0000	0.893881	3.1425777	0.0063480	0.0508536	PARP1
0143799		1	6	8	
ENSG0000	-	4.6940328	0.0063755	0.0510310	ZNF23
0167377	0.4255594	1	4	7	
ENSG0000	0.2947353	6.1025851	0.0064337	0.0514110	SLC30A6
0152683	1	9	9	9	
ENSG0000	-	7.6606232	0.0064286	0.0514110	NUMB
0133961	0.4167007	5	5	9	
ENSG0000	-	6.0694202	0.0064616	0.0515906	DENND4C
0137145	0.3982452	4	6	5	
ENSG0000	0.9203447	3.8871246	0.0064802	0.0516847	EEF1AKMT
0203791	5	7	5	7	2
ENSG0000	0.3556832	8.8362383	0.0064842	0.0516847	CALU
0128595	6	7	8	7	
ENSG0000	0.4666268	5.3482833	0.0065497	0.0521628	LANCL2
0132434	2	8	2	7	
ENSG0000	-0.389033	6.7381004	0.0065971	0.0524969	BCL2L13
0099968			6	4	

ENSG0000	0.8136304	7.0940516	0.0066052	0.0525178	ODC1
0115758	3	4	9	5	
ENSG0000	1.4670507	1.3317580	0.0066181	0.0525761	DRP2
0102385	8	9	3	1	
ENSG0000	-0.548687	5.3440109	0.0066404	0.0527098	EOGT
0163378		9	8	5	
ENSG0000	-	3.1009997	0.0066648	0.0528151	PARP8
0151883	1.3981699	9	1	9	
ENSG0000	4.0004757	0.7491063	0.0066593	0.0528151	CDC6
0094804	6	4	5	9	
ENSG0000	0.3180593	8.3550361	0.0066816	0.0529049	BACE1
0186318	5	2	8	2	
ENSG0000	0.3126094	5.7757914	0.0067324	0.0532624	FAM136A
0035141		8			
ENSG0000	0.5276037	3.9363584	0.0067636	0.0534650	SFR1
0156384	9	2	1	3	
ENSG0000	-	5.1837139	0.0067781	0.0535353	SLC35C2
0080189	0.6541427	1	2	8	
ENSG0000	-	5.0110032	0.0067855	0.0535494	CCNG2
0138764	0.4954273	1	1	7	
ENSG0000	2.2026743	2.3348190	0.0067917	0.0535545	FGFR3
0068078	7	3	7	8	
ENSG0000	-	6.6653323	0.0068273	0.0537903	AOPEP
0148120	0.5082323			5	
ENSG0000	-	6.3387127	0.0068629	0.0540267	MIER1
0198160	0.2874486	5	6	4	
ENSG0000	-	2.9504628	0.0068756	0.0540821	ZNF17
0186272	0.5279698	3	7	7	
ENSG0000	-	2.2585917	0.0069160	0.0543104	GTPBP1
0100226	1.0396477	9	6		
ENSG0000	0.5413606	3.3054057	0.0069396	0.0544418	NDUFAF6
0156170	6		8	2	
ENSG0000	0.6069911	3.9817582	0.0069442	0.0544418	RNASEH1
0171865	2	9		2	
ENSG0000	0.9319812	3.5920383	0.0069712	0.0546088	DDB2
0134574	8	4	2	3	
ENSG0000	-	2.2474797	0.0070237	0.0548590	ABCC4
0125257	1.4194761	6	1	3	
ENSG0000	-	3.2235714	0.0070114	0.0548590	VWA1
0179403	0.9464516	9	2	3	
ENSG0000	0.8399342	5.7645348	0.0070176	0.0548590	TSHZ1
0179981	8	1	9	3	
ENSG0000	-	6.1892223	0.0070261	0.0548590	RAI14
0039560	0.7090029	8	4	3	

ENSG0000	2.6291546	2.3434121	0.0070511	0.0549199	ANP32E
0143401	1	2	9	4	
ENSG0000	1.4989492	4.2905613	0.0070431	0.0549199	ADGRB2
0121753	4	2		4	
ENSG0000	-0.757148	6.7997806	0.0070502	0.0549199	KIAA1217
0120549		9	9	4	
ENSG0000	0.2376264	7.9103169	0.0070581	0.0549290	TOP2B
0077097	5	8	2	6	
ENSG0000	0.6413133	3.9540045	0.0070671	0.0549546	ZNF771
0179965	1	3	6	6	
ENSG0000	-	3.1922698	0.0070829	0.0550326	ACER3
0078124	1.2106251	5	5	2	
ENSG0000	0.3121518	6.3062710	0.0071112	0.0552074	GTF3C2
0115207	7	5	3	3	
ENSG0000	0.3175123	6.2130827	0.0071570	0.0555180	IDH3A
0166411	6	1	5	2	
ENSG0000	-	5.0727441	0.0072049	0.0558438	CCDC71L
0253276	2.6813422	7		3	
ENSG0000	1.8217910	2.9188213	0.0072779	0.0563182	APPL2
0136044	4	9			
ENSG0000	0.2849563	5.4352294	0.0072774	0.0563182	RWDD2B
0156253		3	3		
ENSG0000	-	1.7312776	0.0073073	0.0564999	CCL28
0151882	1.2379413	3		1	
ENSG0000	2.1629798	3.0841131	0.0073169	0.0565287	SF3B4
0143368	5	6	5	6	
ENSG0000	-	4.4088688	0.0073620	0.0568310	GRAMD2B
0155324	1.1709465	9	2	1	
ENSG0000	-	4.5174946	0.0074023	0.057096	S1PR2
0267534	2.1711299	1	3		
ENSG0000	0.7737493	2.6669008	0.0074246	0.0572216	NT5DC1
0178425		2	1	3	
ENSG0000	0.2058587	9.3614650	0.0074347	0.0572535	ATP5F1A
0152234	4	9	5	4	
ENSG0000	-	4.5949377	0.0074879	0.0576166	HSPB2-
0254445	0.7621361	2	3	4	C11orf52
ENSG0000	-	10.440026	0.0075064	0.0577127	PDIA3
0167004	0.4546313	3	6	5	
ENSG0000	2.2570761	1.8479831	0.0075747	0.0581910	ARHGEF39
0137135	4	9	7	3	
ENSG0000	1.9531143	4.1191327	0.0075967	0.0583131	CDCA7L
0164649	8	6	8	9	
ENSG0000	1.1588671	1.7022297	0.0076484	0.0586153	EMC3-AS1
0180385	6	6	1		

ENSG0000	0.3314357	6.8331093	0.0076961	0.0589341	CNOT9
0144580	8		8		
ENSG0000	-	4.6833918	0.0077145	0.0590270	WHAMM
0156232	0.3900852	6		7	
ENSG0000	-	4.9445491	0.0077598	0.0593264	LAMTOR3
0109270	0.2974948		5	8	
ENSG0000	1.5515800	2.7696393	0.0077686	0.0593464	EXOSC8
0120699	8	2	7	3	
ENSG0000	-	7.9069320	0.0077770	0.0593626	MYOF
0138119	0.4927347	6	1	4	
ENSG0000	0.4781355	5.7029208	0.0077897	0.0593648	SYNE3
0176438	3	4	4	9	
ENSG0000	0.3593147	7.0886085	0.0077854	0.0593648	FZR1
0105325	3	2	2	9	
ENSG0000	0.3134268	6.5864767	0.0078220	0.0595639	GLOD4
0167699	7	2	9	1	
ENSG0000	1.6594443	3.5295216	0.0079018	0.0601234	GLCE
0138604	5	9	7	6	
ENSG0000	0.4072670	6.2871259	0.0079636	0.0604972	SSBP3
0157216	2	9	6	1	
ENSG0000	-0.587245	6.2055628	0.0079615	0.0604972	MSC
0178860		6	5	1	
ENSG0000	0.2993954	6.2975912	0.0079708	0.0605034	POLR2J
0005075	5	5	1	2	
ENSG0000	-	8.6663692	0.0079861	0.0605715	CDV3
0091527	0.2776789	7	4	8	
ENSG0000	2.7235878	3.1089149	0.0080517	0.0610206	NCAPH
0121152	5	2	4	6	
ENSG0000	0.7997029	3.8308370	0.0080891	0.0612557	HAT1
0128708	7	8	7	5	
ENSG0000	2.2126300	2.1127440	0.0080995	0.0612859	SPAG5
0076382	8	4	8	5	
ENSG0000	-	5.5694591	0.0081465	0.0615923	MXI1
0119950	0.8650624	4	2	4	
ENSG0000	0.8768039	2.9261033	0.0081987	0.0619218	SMIM4
0168273	4	2		7	
ENSG0000	0.6751291	4.9337773	0.0082030	0.0619218	DNAJB5
0137094	5	8	8	7	
ENSG0000	0.2938289	6.8405275	0.0082277	0.0620591	TRAF3
0131323	1	8	6	8	
ENSG0000	-	5.9812419	0.0082973	0.0625345	PPP2R5E
0154001	0.5684926	4	4	4	
ENSG0000	-	5.5396771	0.0083143	0.0626132	CDC73
0134371	0.8660086	1	4	4	

ENSG0000	2.4238077	3.1844975	0.0083623	0.0629250	MYBL2
0101057		5	3	3	
ENSG0000	1.0334566	2.4400533	0.0083847	0.0630440	DNMT3B
0088305	6	1	4	2	
ENSG0000	-	8.3159135	0.0083999	0.0631088	PSMA4
0041357	0.2264082	8	8	7	
ENSG0000	0.4506014	5.2347830	0.0084436	0.0632948	SENP1
0079387	5	5	4	1	
ENSG0000	-	5.0978535	0.0084377	0.0632948	NPEPPS
0141279	0.6316201	8	1	1	
ENSG0000	-	7.5511035	0.0084446	0.0632948	LRRC41
0132128	0.2020944		1	1	
ENSG0000	-	3.9408185	0.0084888	0.0634771	ZNF385A
0161642	1.2912297	4	8	3	
ENSG0000	-	11.744204	0.0084852	0.0634771	CD44
0026508	0.5361798	9	4	3	
ENSG0000	0.2046713	7.6271217	0.0084990	0.0635037	SEC11A
0140612		5	8	1	
ENSG0000	-	5.1433585	0.0085457	0.0638027	EDF1
0107223	0.3685212	8	9	8	
ENSG0000	0.3691081	5.8338940	0.0085606	0.0638640	NEK1
0137601	7	7	9	9	
ENSG0000	0.6622786	5.065864	0.0085734	0.0639094	GMPPB
0173540	1		6	6	
ENSG0000	-	4.8285659	0.0086152	0.0641708	PLEKHM2
0116786	0.9677334	1	6	8	
ENSG0000	-	0.6645213	0.0086421	0.0643211	RAB8B
0166128	2.2799133	3	6	4	
ENSG0000	-	-	0.0086774	0.0645331	DDX58
0107201	7.0027661	1.1135112	1	7	
ENSG0000	-	7.3098986	0.0087011	0.0646596	CYLD
0083799	0.6091973		9	5	
ENSG0000	-	1.6002979	0.008739	0.0647810	LNPEP
0113441	2.0457107	9		1	
ENSG0000	0.5442918	5.6866618	0.0087514	0.0647810	UCHL5
0116750	1	1	4	1	
ENSG0000	0.4337339	9.4743426	0.0087430	0.0647810	RPL21
0122026	1	3	9	1	
ENSG0000	-	7.4073912	0.0087483	0.0647810	BSDC1
0160058	0.2918572	9	9	1	
ENSG0000	0.3472212	8.2230073	0.0087243	0.0647810	HNRNPUL
0105323	4	2	8	1	1
ENSG0000	-	7.6682138	0.0087718	0.0648821	PCYT1A
0161217	0.4583372		9	1	

ENSG0000	-	5.4692487	0.0088172	0.0651670	NME6
0172113	0.3149516	5	4	7	
ENSG0000	0.8128412	3.4035872	0.0088346	0.0652448	CDH24
0139880	6	5	1	9	
ENSG0000	0.5409482	5.4859757	0.0088962	0.0656493	SMG9
0105771	6	3	5	4	
ENSG0000	-	9.0057132	0.0089039	0.0656556	GUK1
0143774	0.4170987	4	8	7	
ENSG0000	-	3.1294358	0.0089302	0.0657981	CDK17
0059758	0.8355419	6		9	
ENSG0000	-	-	0.0089516	0.0658545	HCK
0101336	7.2006125	0.1183002	4	2	
ENSG0000	-	3.7255587	0.0089491	0.0658545	SLC37A3
0157800	0.8900316	5	9	2	
ENSG0000	-	3.2277129	0.0089630	0.0658874	NCK2
0071051	0.7143231	2	1	6	
ENSG0000	0.8132409	5.6344681	0.0089793	0.0659569	TCOF1
0070814	8	7	7	2	
ENSG0000	-	3.0430360	0.0090250	0.0662412	CLIC3
0169583	1.5263258	7	1	1	
ENSG0000	0.7247647	4.8524868	0.0090748	0.0665558	CTDSPL
0144677	9	5	5	4	
ENSG0000	0.3701988	6.1193160	0.0091029	0.0667108	PRKACB
0142875	6	1	6	2	
ENSG0000	2.6192601	2.9905843	0.0091100	0.0667116	FANCG
0221829	9	9	6	5	
ENSG0000	-	7.2907172	0.0091212	0.0667425	IST1
0182149	0.2201401	1	7	4	
ENSG0000	0.7949906	4.5863842	0.0091293	0.0667504	MEPCE
0146834	7	2	4	4	
ENSG0000	0.6439067	2.8346488	0.0091507	0.0668264	ZNHIT6
0117174	9	8	1	1	
ENSG0000	-	11.83812	0.0091537	0.0668264	LDHA
0134333	0.5429318		3	1	
ENSG0000	1.2509789	3.0441675	0.0091758	0.0669367	DCLK2
0170390	8	4	5	7	
ENSG0000	3.0245490	2.0751664	0.0091962	0.0669678	TTYH3
0136295	4		7	9	
ENSG0000	0.6581621	4.3395707	0.0092011	0.0669678	FDFT1
0079459	5	8	6	9	
ENSG0000	0.6430417	7.1850572	0.0091970	0.0669678	ASAP2
0151693	3	8	6	9	
ENSG0000	-	9.7461129	0.0092100	0.0669814	MYO1B
0128641	0.4079625	7	4	9	

ENSG0000	3.6499828	2.4821124	0.0092433	0.0670388	CTNNAL1
0119326		7	8	9	
ENSG0000	1.2162026	5.3171092	0.0092371	0.0670388	ACAP3
0131584	5	6	2	9	
ENSG0000	-	5.1801456	0.0092460	0.0670388	PAQR7
0182749	0.5496607	9	2	9	
ENSG0000	0.4011867	6.3672361	0.0092333	0.0670388	TEX2
0136478	7	8	9	9	
ENSG0000	1.2012833	2.4511100	0.009272	0.0671763	ZNF826P
0231205	3	5		1	
ENSG0000	-	4.2851592	0.0092912	0.0672496	ASB3
0115239	0.5956476	1	7	2	
ENSG0000	-	4.2102488	0.0093002	0.0672496	NAPA
0105402	0.8054864	8	1	2	
ENSG0000	-	7.4132307	0.0093032	0.0672496	ERBB2
0141736	0.3521505	6	5	2	
ENSG0000	2.0205486	2.3683997	0.0093115	0.0672583	WASHC5
0164961	8	4		2	
ENSG0000	-	2.6438851	0.0093477	0.0673293	RNF207
0158286	0.6439048	9			
ENSG0000	-	3.5589118	0.0093338	0.0673293	DUSP23
0158716	0.4971313		6		
ENSG0000	-	4.9443216	0.0093495	0.0673293	RNF38
0137075	0.4652393	3	3		
ENSG0000	0.3621582	5.4673140	0.0093389	0.0673293	FBXW8
0174989	2	9	1		
ENSG0000	1.1523126	2.7659809	0.0093731	0.0674483	DTYMK
0168393	9	4	2	2	
ENSG0000	0.3310705	5.6048328	0.0094058	0.0675876	SLC9A6
0198689	5	8	3	2	
ENSG0000	-	5.6292846	0.0094066	0.0675876	RABGGTA
0100949	0.2611115	1	3	2	
ENSG0000	-	7.6632765	0.0094249	0.0676685	SLK
0065613	0.3082095	4	8	4	
ENSG0000	0.3733738	6.7799171	0.0094330	0.0676755	ENSA
0143420	2	6	4	2	
ENSG0000	-	1.9125206	0.0094409	0.0676815	NBEAL2
0160796	1.4615304	3	7	5	
ENSG0000	-	2.6664742	0.0094640	0.0677961	CYB5R4
0065615	0.6704498	9	6	6	
ENSG0000	3.5175568	3.0019463	0.0095085	0.0680637	SKA3
0165480	1	8	4	2	
ENSG0000	0.9802264	4.9203765	0.0095856	0.0685644	SAE1
0142230	3	7	7	4	

ENSG0000	-	4.6821806	0.0096120	0.0687017	HAS3
0103044	1.4263615	4	6	9	
ENSG0000	-	-	0.0096212	0.0687160	PILRA
0085514	1.8431983	0.0570468	6	6	
ENSG0000	0.3314832	6.7825749	0.0096341	0.0687565	TOMM6
0214736	5	5	2	4	
ENSG0000	-0.593088	2.1641289	0.0096733	0.0689852	APOBEC3F
0128394		3	9	4	
ENSG0000	1.3077005	4.6081023	0.0097706	0.0696270	PITPNC1
0154217	7	6	8	2	
ENSG0000	0.5274029	6.6532258	0.0098257	0.0699152	ORAI2
0160991	9	2	7	9	
ENSG0000	-	6.8852601	0.0098193	0.0699152	VPS13C
0129003	0.4477128	7	4	9	
ENSG0000	-	2.9099882	0.0098429	0.0699752	BAK1
0030110	1.0794588	9	5	5	
ENSG0000	0.3604388	6.5137905	0.0098488	0.0699752	ANAPC5
0089053	6	8	6	5	
ENSG0000	0.6202830	5.6437601	0.0098967	0.0702634	ASH2L
0129691	4	2	8	8	
ENSG0000	-	2.7401333	0.0099612	0.0706398	SNCG
0173267	1.1822929	2	6	1	
ENSG0000	-	5.7972959	0.0099645	0.0706398	FAM219A
0164970	0.5320884	6	8	1	
ENSG0000	0.7426269	4.0899722	0.0099794	0.0706929	CCDC74A
0163040		1	9	9	
ENSG0000	-	5.2912639	0.0100107	0.0707064	CARHSP1
0153048	0.5709827	8	6	8	
ENSG0000	-1.393977	4.4386292	0.0099925	0.0707064	VCAM1
0162692		7	4	8	
ENSG0000	-	6.9141610	0.0100110	0.0707064	SUPT5H
0196235	0.4686113	7	1	8	
ENSG0000	-	8.0612222	0.0099980	0.0707064	ILK
0166333	0.3298123	5	2	8	
ENSG0000	0.491559	4.2066268	0.0100286	0.0707789	SRPRB
0144867		5	9	8	
ENSG0000	-	4.6043753	0.0100403	0.0707852	PPP1R13L
0104881	0.9618416	6	4	5	
ENSG0000	-	5.5653462	0.0100444	0.0707852	NAV3
0067798	0.5814364	1		5	
ENSG0000	2.6405800	3.1043707	0.0101136	0.0711157	GLRB
0109738	4	6	4	1	
ENSG0000	-	3.9606335	0.0101057	0.0711157	EHMT1
0181090	0.5456985	4	1	1	

ENSG0000	-	5.1092352	0.0101125	0.0711157	PLOD2
0152952	1.0510687	3	9	1	
ENSG0000	0.5969474	4.3228594	0.0101514	0.0713290	ZFP62
0196670	5	9	5	6	
ENSG0000	0.5679149	6.5031717	0.0102005	0.0716211	LAPTM4B
0104341	4	6	1		
ENSG0000	-2.422461	0.4702134	0.0102193	0.0716480	SFT2D2
0213064		5	6	7	
ENSG0000	-	6.374413	0.0102122	0.0716480	ARHGAP5
0100852	0.3678953		5	7	
ENSG0000	-	5.8195475	0.0102348	0.0717039	MVB12A
0141971	0.4597776	2	4	6	
ENSG0000	0.9096361	1.9585141	0.0102727	0.0719170	IQCC
0160051	4	1	8	2	
ENSG0000	0.7762810	5.1862925	0.0103216	0.0722059	WDR90
0161996	2	1	1	3	
ENSG0000	0.4663505	4.9193625	0.0103741	0.0724671	KAT14
0149474	7	5	3	2	
ENSG0000	-	4.9553155	0.0103709	0.0724671	ZNF562
0171466	0.6103465	6	1	2	
ENSG0000	0.6220984	2.8760203	0.0103953	0.0725472	C11orf1
0137720		7			
ENSG0000	0.6174562	5.1258299	0.0104007	0.0725472	METRNL
0103260	8	6	9		
ENSG0000	-	7.0340981	0.0104344	0.0727285	GYG1
0163754	0.3397946			6	
ENSG0000	3.5002015	0.8779355	0.0104654	0.0728412	GINS4
0147536	1	3	4	6	
ENSG0000	-	6.4846534	0.0104658	0.0728412	KHNYN
0100441	0.3502311	2	3	6	
ENSG0000	-	5.8460861	0.010498	0.0730119	OTUD4
0164164	0.8537833	7		8	
ENSG0000	1.2898242	5.5073297	0.0105337	0.0731539	CABLES1
0134508	5	4	4	8	
ENSG0000	-	6.3328311	0.0105284	0.0731539	MYC
0136997	0.9951768	9	4	8	
ENSG0000	-	2.3642346	0.0105585	0.0732449	KRT8
0170421	2.5216723	7		7	
ENSG0000	0.4983277	6.3352564	0.0105621	0.0732449	CACYBP
0116161	3	6	9	7	
ENSG0000	2.4851063	2.6573127	0.010613	0.0734906	SGO1
0129810	4	6		3	
ENSG0000	-	6.1034989	0.0106080	0.0734906	DLC1
0164741	0.7958467	3	1	3	

ENSG0000	-	6.6598270	0.0106280	0.0735413	CD47
0196776	0.6201286	4	3	7	
ENSG0000	0.5150956	4.050337	0.0106360	0.0735434	COMMD3-
0269897	1		4	9	BMI1
ENSG0000	-	4.7610297	0.0106923	0.0738790	THAP6
0174796	0.3457747	7		3	
ENSG0000	0.5582928	3.3652065	0.0107271	0.0740126	OXNAD1
0154814	3	1	5	8	
ENSG0000	-	7.5971523	0.0107251	0.0740126	SAT1
0130066	0.8845986	1	7	8	
ENSG0000	-	3.7561803	0.0107917	0.0744045	OR7E38P
0183444	0.5429986	9	3	2	
ENSG0000	3.1078293	2.2101169	0.0108167	0.0744160	CENPA
0115163		7	8	3	
ENSG0000	1.2242757	3.3991755	0.0108143	0.0744160	POC1A
0164087	8	8	1	3	
ENSG0000	-	3.1942445	0.0108105	0.0744160	NUDT18
0275074	0.6997999	6	1	3	
ENSG0000	0.8355362	4.8781652	0.0108415	0.0744876	TRIM28
0130726			8	6	
ENSG0000	-	5.8367016	0.0108428	0.0744876	KDM4B
0127663	0.5014135	4		6	
ENSG0000	-	3.0188984	0.0108770	0.0746157	P2RY6
0171631	1.3334713	6	6	1	
ENSG0000	-	5.0878632	0.0108697	0.0746157	FCHSD1
0197948	0.6123082	5	6	1	
ENSG0000	-	6.5479326	0.0109077	0.0747723	DICER1
0100697	0.4464926	2	2	2	
ENSG0000	-	4.8407272	0.0109519	0.0750216	SIGIRR
0185187	0.5481838	6	5	2	
ENSG0000	-	1.1579426	0.0110284	0.0753297	COL27A1
0196739	2.6721905	4		3	
ENSG0000	-	2.8480544	0.0110132	0.0753297	DYNLT1
0146425	0.9944065	3	9	3	
ENSG0000	0.5289308	5.502308	0.0110363	0.0753297	SBDSP1
0225648	8		7	3	
ENSG0000	-	6.6503185	0.0110340	0.0753297	UHMK1
0152332	1.0657314	3	8	3	
ENSG0000	0.466002	7.5803756	0.0110332	0.0753297	MDFIC
0135272		3	9	3	
ENSG0000	0.5934386	5.6064809	0.0111016	0.0756679	DCAF15
0132017	9	6	2	1	
ENSG0000	-	7.5869259	0.0111017	0.0756679	TMED10
0170348	0.4267858	3	6	1	

ENSG0000	-	4.6858692	0.0111252	0.0757198	TMEM234
0160055	0.3270191	4	4	4	
ENSG0000	0.3488744	10.527864	0.0111204	0.0757198	RACK1
0204628	9	5	2	4	
ENSG0000	0.5163740	4.7560925	0.0111772	0.0759117	EIF2AK1
0086232	5	6	8	3	
ENSG0000	-	5.1503967	0.0111689	0.0759117	SYTL2
0137501	0.9867447	1	8	3	
ENSG0000	0.3656348	9.0009268	0.0111770	0.0759117	ILF3
0129351	4	3	7	3	
ENSG0000	-	7.4994645	0.0112498	0.0763502	DCTN4
0132912	0.2479328		5	6	
ENSG0000	0.7203527	2.8326660	0.0112766	0.0764778	TMEM192
0170088	8	9	6	7	
ENSG0000	-	2.8985294	0.0112930	0.0765347	PRKD1
0184304	1.9814688	9	6	5	
ENSG0000	0.6185661	6.3975779	0.0113628	0.0769531	MIB1
0101752	3	4	6	7	
ENSG0000	-	4.6362439	0.0113893	0.0770779	LINC01145
0272419	0.6121661	9	6	8	
ENSG0000	1.5608820	3.2558376	0.0114098	0.0771075	CEP44
0164118	3	5	8		
ENSG0000	4.1152099	1.3986178	0.0114083	0.0771075	KIF2C
0142945	6	1	1		
ENSG0000	-	4.0525072	0.0114351	0.0771689	H2BC21
0184678	1.1614631	6	2		
ENSG0000	-	6.3109992	0.0114325	0.0771689	ELK1
0126767	0.3060385	8	9		
ENSG0000	-	4.2657481	0.0115051	0.0774528	CCDC28A
0024862	0.4882062	2	2	4	
ENSG0000	0.5939770	3.9159159	0.0114938	0.0774528	MTHFD2L
0163738	5	9	6	4	
ENSG0000	-	4.8826660	0.0115096	0.0774528	GRPEL1
0109519	0.3819534	2	4	4	
ENSG0000	0.2940672	6.9816357	0.0114979	0.0774528	PPT1
0131238		5	9	4	
ENSG0000	0.4737245	4.8455770	0.0115493	0.0776114	RAD1
0113456	4	5	2	6	
ENSG0000	0.4292426	5.9637138	0.0115494	0.0776114	FAM98B
0171262		4	7	6	
ENSG0000	-	4.5187001	0.0115637	0.0776381	H2AC6
0180573	1.5663616	1	4	6	
ENSG0000	-0.318376	6.4815332	0.0115697	0.0776381	NAA60
0122390		6		6	

ENSG0000	-	8.6923407	0.0115809	0.0776589	NDUFA4L2
0185633	1.4035406	7	4	9	
ENSG0000	-	3.1127374	0.0116020	0.0777459	EIF4E3
0163412	0.8268015	5	4		
ENSG0000	-	2.7653262	0.0116269	0.0778243	ARHGAP42
0165895	1.1600828	1	2	8	
ENSG0000	-	7.0112397	0.0116300	0.0778243	CDIPT
0103502	0.4392332	3	5	8	
ENSG0000	0.3808880	5.6867008	0.0116716	0.0780479	HMCES
0183624	4	5	3	2	
ENSG0000	0.5137649	4.1695047	0.0116856	0.0780870	EED
0074266	1	7	7	9	
ENSG0000	3.7770604	4.4011363	0.0117084	0.0781847	RRM2
0171848	8	6	7	2	
ENSG0000	2.0230699	1.5818713	0.0117352	0.0783089	GDF11
0135414	7	5	7	6	
ENSG0000	-	2.6716068	0.0117588	0.0784113	TP53BP2
0143514	1.9394238	2	2	2	
ENSG0000	0.4096496	4.5252013	0.0118660	0.0790157	TRMT2B
0188917	8	5	1	1	
ENSG0000	0.2595136	5.8449408	0.0118580	0.0790157	REPS1
0135597		3	6	1	
ENSG0000	1.1307336	1.3975309	0.0118874	0.0790751	CCDC163
0280670	2	8	9	4	
ENSG0000	0.4740395	4.5523171	0.0118915	0.0790751	MIS12
0167842	9			4	
ENSG0000	0.6493734	4.9643397	0.0119112	0.0791514	RBM12B
0183808		7	7	8	
ENSG0000	1.2596554	1.9501720	0.0119209	0.0791607	SFXN2
0156398	2	3	5	5	
ENSG0000	-	5.9270414	0.0119328	0.0791848	ISY1-
0261796	0.5998978	8	7	5	RAB43
ENSG0000	0.4636516	4.6286068	0.0119558	0.0792821	C12orf57
0111678	8	5	4	7	
ENSG0000	1.0258093	3.4365968	0.0119945	0.0794839	HAUS5
0249115	4	2	9	6	
ENSG0000	-	4.2740561	0.0120118	0.0794879	DDR1
0204580	0.9254494	7	5	9	
ENSG0000	-	8.2276535	0.0120115	0.0794879	PCDH18
0189184	0.9039234	2	1	9	
ENSG0000	0.5960729	4.7961036	0.0120265	0.0795298	USP39
0168883	7	4	1	5	
ENSG0000	0.5967923	3.5646476	0.0120478	0.0796158	NSUN5P2
0106133	6		5	6	

ENSG0000	-	5.7967171	0.0120696	0.0797047	CKB
0166165	1.1293099	4	5	3	
ENSG0000	0.5804940	3.818462	0.0120810	0.0797251	OARD1
0124596	8		8	3	
ENSG0000	-	6.8064922	0.0120924	0.0797451	TCIRG1
0110719	0.4158839	3	7	7	
ENSG0000	-	5.887419	0.0121099	0.0798055	IRF3
0126456	0.4662497		8	4	
ENSG0000	4.3938997	2.9306633	0.0123167	0.0811119	CDC20
0117399	3	2	1	2	
ENSG0000	0.6617535	6.4634625	0.0123913	0.0815472	CLOCK
0134852	9	7	5	3	
ENSG0000	-	10.916516	0.0124137	0.0816385	CD59
0085063	0.4145878	6	8	3	
ENSG0000	0.5608843	4.8068165	0.0124566	0.0818638	MT-ND6
0198695		6	1	1	
ENSG0000	1.0415909	7.2911942	0.0124911	0.0820344	PYCR1
0183010	6		6	5	
ENSG0000	-	4.4924695	0.0125009	0.0820423	TMEM179B
0185475	0.4464184		6	7	
ENSG0000	0.3667392	4.3521813	0.0125522	0.0823221	ZNF398
0197024	1		2	9	
ENSG0000	-	5.5642597	0.0125941	0.0825403	TMEM35B
0243749	0.4486794	9	2	4	
ENSG0000	-	7.3181091	0.0126088	0.0825798	USP25
0155313	0.4758161			3	
ENSG0000	-0.388464	5.4158683	0.0126375	0.0827113	SOAT1
0057252			4	7	
ENSG0000	0.4658872	5.5949112	0.0127084	0.0831184	TRMU
0100416	2		5	8	
ENSG0000	0.3834625	9.2819066	0.0127266	0.0831807	SLC3A2
0168003	1	5	7	1	
ENSG0000	1.0947329	6.7856321	0.0127759	0.0834455	FZD7
0155760	2	1	4	8	
ENSG0000	0.4169406	6.0238391	0.0128107	0.0836103	HYAL2
0068001	6	4	8	2	
ENSG0000	-	5.4980016	0.0128186	0.0836103	IL4R
0077238	0.6911627	1	7	2	
ENSG0000	-	3.9409714	0.0128686	0.0838636	CARD19
0165233	0.6129109	6	9	6	
ENSG0000	-0.346671	5.1052808	0.0128838	0.0838636	CXorf38
0185753		4	6	6	
ENSG0000	-	5.9608909	0.0128779	0.0838636	ABHD5
0011198	0.5587513		1	6	

ENSG0000	-	1.4065462	0.0129290	0.0841007	SLC35B4
0205060	3.6145278	4	9	5	
ENSG0000	-	1.6966545	0.0131030	0.0849834	PTEN
0171862	1.6426418	3	2	1	
ENSG0000	-	3.2012763	0.0130742	0.0849834	SNRK
0163788	1.3315505	3	4	1	
ENSG0000	-	3.8881252	0.0130985	0.0849834	ZNF200
0010539	0.4049461	4	7	1	
ENSG0000	-0.635303	4.4613857	0.0131092	0.0849834	DEDD
0158796		5	9	1	
ENSG0000	0.3093952	9.350033	0.0130999	0.0849834	RPL18
0063177	9			1	
ENSG0000	-	7.9687970	0.0131350	0.0850925	DAZAP2
0183283	0.3070421	4	3	3	
ENSG0000	-	4.4839048	0.0131576	0.0851812	TOMM40L
0158882	0.5069446	9	5	9	
ENSG0000	0.7997835	3.0739510	0.0131868	0.0853124	SEMA6C
0143434	7	5	4	2	
ENSG0000	0.6386286	4.9446801	0.0132163	0.0854455	RAD51D
0185379		5	7	6	
ENSG0000	3.9669563	1.9945458	0.0132734	0.0857447	POLE2
0100479	5	9		2	
ENSG0000	0.2942032	6.4576573	0.0132806	0.0857447	RHEB
0106615	7	2		2	
ENSG0000	2.7170587	1.7067465	0.0133297	0.0860041	HAUS8
0131351	1	7	9	5	
ENSG0000	-	5.7222967	0.0133511	0.0860840	FRS2
0166225	0.4864899		9	8	
ENSG0000	-	4.6610809	0.0133804	0.0862103	ANKRD1
0148677	2.4248916	5		1	
ENSG0000	-	5.3324015	0.0133888	0.0862103	MLH3
0119684	0.5221345	8	2	1	
ENSG0000	-	6.3856339	0.0134615	0.0866202	NPIPB5
0243716	0.6165245	6	6	3	
ENSG0000	-	6.1741203	0.0135297	0.0870000	ARHGEF10
0074964	0.4711277	7		8	L
ENSG0000	1.208038	3.6276846	0.0135548	0.0871034	TXNRD2
0184470		1	9	2	
ENSG0000	0.7496612	3.7996064	0.0136333	0.0875484	TBC1D7
0145979	4	1	1	2	
ENSG0000	-	3.0651789	0.0136543	0.0875657	TMEM182
0170417	0.4765428	5	6	9	
ENSG0000	0.3795142	4.3132161	0.0136476	0.0875657	ZBTB14
0198081	7	4	4	9	

ENSG0000	1.2365558	1.3957121	0.0137616	0.0881935	TAF6L
0162227	3	7	8	7	
ENSG0000	-0.661396	3.5176174	0.0137707	0.0881935	HSCB
0100209		2	2	7	
ENSG0000	-	7.1799258	0.0138159	0.0884238	RAB11A
0103769	0.3734317		3		
ENSG0000	-	1.2331670	0.0139452	0.0885719	KCNQ3
0184156	1.3544149	2	7	6	
ENSG0000	-	3.3397000	0.0139208	0.0885719	OR4F17
0176695	0.5469694	9	5	6	
ENSG0000	0.5091821	4.0690849	0.0138502	0.0885719	CEP41
0106477	3	9	9	6	
ENSG0000	-	-	0.0139479	0.0885719	ZW10
0086827	5.1795096	1.2457468	8	6	
ENSG0000	0.4341675	4.2750888	0.0139082	0.0885719	FBXO45
0174013	6	6	2	6	
ENSG0000	-	3.5849869	0.0139592	0.0885719	LAMA1
0101680	1.0363642	2	5	6	
ENSG0000	0.6745174	4.4987152	0.0139430	0.0885719	ITGB3BP
0142856	1	8	1	6	
ENSG0000	-	3.5665253	0.0139596	0.0885719	LINC00869
0277147	0.5400559	5	6	6	
ENSG0000	-	4.5800202	0.0139126	0.0885719	ZNF226
0167380	0.5001955	7	2	6	
ENSG0000	0.8548720	6.3514868	0.0139467	0.0885719	NNT
0112992	3	1	5	6	
ENSG0000	0.3069445	6.5043906	0.0138803	0.0885719	GMPR2
0100938	1	6	4	6	
ENSG0000	0.5358946	7.0411428	0.0139267	0.0885719	ABLIM3
0173210	3	1	4	6	
ENSG0000	-	7.3604876	0.0138635	0.0885719	TMBIM6
0139644	0.5104486	2	9	6	
ENSG0000	0.7046818	4.9631726	0.0139973	0.0887524	RNASEH2B
0136104	9	7	9		
ENSG0000	2.4367779	3.0492335	0.0140462	0.0889441	CPEB1
0214575	7	6	6	5	
ENSG0000	-	4.6126270	0.0140410	0.0889441	PSMA6
0100902	1.0777676	8	6	5	
ENSG0000	1.0977109	2.2883421	0.0140783	0.0890883	ESCO1
0141446	4	8	6	1	
ENSG0000	0.6078349	7.7302546	0.0141088	0.0892174	RPS4X
0198034	3	1	5		
ENSG0000	0.5495308	8.4967771	0.0141174	0.0892174	GPX4
0167468	2	4	5		

ENSG0000	-	4.4653372	0.0141319	0.0892268	ATXN3
0066427	0.3776806	9	3	9	
ENSG0000	0.4135340	7.6426986	0.0141376	0.0892268	MEGF8
0105429	7	5	4	9	
ENSG0000	1.0296547	2.5281774	0.0141648	0.0893398	FAM86C2P
0160172	7	3	9	8	
ENSG0000	0.3871168	5.7971484	0.0142727	0.0899299	CEP63
0182923	3	6	7	5	
ENSG0000	0.4818685	6.3878073	0.0142772	0.0899299	PA2G4
0170515	5	3	9	5	
ENSG0000	-	0.4627961	0.0142929	0.0899691	STEAP1
0164647	1.8271686	1	3	3	
ENSG0000	-	4.2148161	0.0143354	0.0901776	C8orf58
0241852	0.6379444		9	2	
ENSG0000	-	4.3708209	0.0143871	0.0904426	PARP10
0178685	0.7333743	4		8	
ENSG0000	-	7.4727049	0.0144363	0.0906925	BIRC6
0115760	0.3429782	6	4	2	
ENSG0000	-	3.6726920	0.0144852	0.0909397	MALT1
0172175	1.1207795	6	2	8	
ENSG0000	1.7172754	1.0413670	0.0145091	0.0910303	TNFRSF9
0049249	3	2	8	2	
ENSG0000	-	6.0930025	0.0145311	0.0911083	DENND3
0105339	0.6103516	2	6	6	
ENSG0000	-0.733898	2.3548941	0.0145995	0.0912048	SGCB
0163069		1	5	7	
ENSG0000	0.5351719	4.0901579	0.0145749	0.0912048	EXO5
0164002	9	5	8	7	
ENSG0000	1.6053655	4.3067417	0.0146134	0.0912048	VPS51
0149823	7	5	1	7	
ENSG0000	-	5.2594524	0.0146089	0.0912048	FBXO31
0103264	0.4221033	1	2	7	
ENSG0000	-	5.6360872	0.0145942	0.0912048	MCC
0171444	0.7107144	7	2	7	
ENSG0000	-	10.055607	0.0145921	0.0912048	NFE2L1
0082641	0.3543812	3	2	7	
ENSG0000	0.2474603	8.8857599	0.0145661	0.0912048	RPL35A
0182899	4	3	1	7	
ENSG0000	-	4.3910268	0.0146431	0.0913310	REEP5
0129625	1.5981882	6	9	1	
ENSG0000	0.3454775	3.9429429	0.0147615	0.0917632	SDHAF1
0205138	4	4	2	3	
ENSG0000	-	4.2508004	0.0147557	0.0917632	BAZ2B
0123636	0.6539399	3	8	3	

ENSG0000	0.7558550	4.6019190	0.0147606	0.0917632	KLHL15
0174010	9	4	1	3	
ENSG0000	-	5.4454941	0.0147516	0.0917632	DMAP1
0178028	0.4178424	3		3	
ENSG0000	0.4328322	6.1369440	0.0147327	0.0917632	TCF3
0071564	4	6	9	3	
ENSG0000	-	5.4066074	0.0147701	0.0917632	LGALS3BP
0108679	1.1708775	5	4	3	
ENSG0000	0.2159400	7.0397300	0.0148081	0.0919394	ADNP
0101126	8	5	4	9	
ENSG0000	-	3.3329347	0.0148395	0.0920146	C15orf48
0166920	0.9191103		1	1	
ENSG0000	-	6.9068829	0.0148328	0.0920146	RFX5
0143390	0.4374797	1	4	1	
ENSG0000	0.2512788	7.2684623	0.0148666	0.0921230	CPSF7
0149532	2	8	5	6	
ENSG0000	0.2797331	7.5868649	0.0148807	0.0921504	TMA7
0232112	2	4	2	4	
ENSG0000	-	3.4888065	0.0149083	0.0922615	HDHD3
0119431	0.5044191	2	3	7	
ENSG0000	0.4998861	3.6993586	0.0149568	0.0924707	COX7C
0127184	3	2	1	5	
ENSG0000	0.2210301	7.5274414	0.0149614	0.0924707	API5
0166181	6	1	9	5	
ENSG0000	-	3.0272323	0.0150029	0.0926671	BLVRA
0106605	0.8286522	8	7	3	
ENSG0000	0.6306459	13.151612	0.0150310	0.0927807	ELN
0049540	2	4	9	7	
ENSG0000	0.2207283	6.4203080	0.0150463	0.0928149	ABHD14B
0114779	5	8	5	8	
ENSG0000	0.7171322	2.7391800	0.0150561	0.0928156	MIF4GD
0125457	8	2	8	5	
ENSG0000	1.4235510	2.5444549	0.0151400	0.0932725	DNAH5
0039139	3	5	6	2	
ENSG0000	-	2.578546	0.0151729	0.0934151	CSPG4P12
0259295	0.9186597		8	1	
ENSG0000	-	6.7659436	0.0152218	0.0936556	BPMS
0157110	0.4683292	4	7	8	
ENSG0000	0.4611765	4.1608875	0.0153075	0.0941170	METTL15
0169519	9	6	3	1	
ENSG0000	0.4058781	7.1632706	0.0153165	0.0941170	SRRT
0087087	4	4	6	1	
ENSG0000	0.4788889	5.4549066	0.0153582	0.0942712	THUMPD3
0134077	3	8	1	8	

ENSG0000	-	6.1265752	0.0153614	0.0942712	NKIRAS2
0168256	0.3190295	6	1	8	
ENSG0000	-	7.7150967	0.0153732	0.0942835	PLXNA3
0130827	0.4355999	2	8	3	
ENSG0000	0.6458472	3.8759645	0.0153909	0.094331	PABPC1L
0101104		2			
ENSG0000	0.5358769	3.2394902	0.0154875	0.0948622	NOPCHAP
0151131	3		1	6	1
ENSG0000	-	6.8091289	0.0155006	0.0948819	USP9X
0124486	0.3591252	2	6	5	
ENSG0000	-	2.3582897	0.0155136	0.0949004	ACSL1
0151726	1.3603872	6	2	4	
ENSG0000	-	2.2961330	0.0155893	0.0953027	SYT15B
0277758	1.5154779	2	6	1	
ENSG0000	0.2580377	9.4103395	0.0156291	0.0954847	XRCC6
0196419	4	8	4	6	
ENSG0000	1.6429776	2.2889622	0.0156606	0.09553	MSH5
0204410	5		9		
ENSG0000	0.6242117	2.1674754	0.0156997	0.09553	RRP36
0124541	5	6	5		
ENSG0000	-	2.1239404	0.0156768	0.09553	SLC25A30
0174032	1.4305299	6	9		
ENSG0000	2.1024829	4.3801363	0.0156741	0.09553	ARHGAP11
0198826	5		5		A
ENSG0000	-	3.7963863	0.0156770	0.09553	DUXAP9
0225210	1.0158632	6	8		
ENSG0000	0.5086806	5.1017822	0.0157065	0.09553	UQCC2
0137288	2	7	8		
ENSG0000	-	7.0897419	0.0157028	0.09553	DNPEP
0123992	0.2287119	2	9		
ENSG0000	0.4695603	6.8454195	0.0157927	0.0959928	SP3
0172845	6		3	9	
ENSG0000	1.7537513	2.3184079	0.0158432	0.0961839	TEX30
0151287		2	5	8	
ENSG0000	2.4371624	0.9939122	0.0158535	0.0961839	RTL9
0243978	1	1	1	8	
ENSG0000	-	7.6110624	0.0158543	0.0961839	ATG13
0175224	0.2760151	5	9	8	
ENSG0000	0.8228892	2.2046950	0.0159074	0.0964444	PPP1R3E
0235194	3	2	3	8	
ENSG0000	0.2534312	7.3309452	0.0160073	0.0969885	METAP2
0111142	4	5	3	9	
ENSG0000	0.5537545	4.1247119	0.0160699	0.0972445	IFT22
0128581	4	8	5	7	

ENSG0000	0.3798443	5.2730060	0.0160600	0.0972445	COP1
0143207	5	7	4	7	
ENSG0000	-	5.6480872	0.0161291	0.0975411	CCDC91
0123106	0.3474085	9	8	9	
ENSG0000	-0.886486	3.9981571	0.0161818	0.0976741	UBE2E1
0170142		3	5	3	
ENSG0000	0.9547891	5.5274032	0.0161666	0.0976741	ARL4C
0188042		9	8	3	
ENSG0000	0.4168107	6.1663269	0.0161783	0.0976741	APEX1
0100823	4	2		3	
ENSG0000	0.5928173	4.7793154	0.0162512	0.0980312	PALS2
0105926	8	8	8	3	
ENSG0000	1.1878811	3.3172851	0.0162919	0.0982145	RNF182
0180537	5	1	6	7	
ENSG0000	-	5.8370753	0.0163874	0.0987276	ADCY4
0129467	1.0772036	6		2	
ENSG0000	-	4.5462401	0.0164278	0.0989089	TMEM126B
0171204	0.3283839	4	5		
ENSG0000	0.6152537	3.2455539	0.0164384	0.0989106	C14orf93
0100802	8	3	9	4	
ENSG0000	-	4.1324250	0.0164752	0.0990695	BCLAF3
0173681	0.3841087	5	8	2	
ENSG0000	-	3.2442379	0.0165538	0.0994791	PTK2B
0120899	0.9077172	8	1	4	
ENSG0000	1.6726821	3.6051919	0.0165817	0.0995746	HELLS
0119969	6	5	5	2	
ENSG0000	-	6.3484642	0.0165905	0.0995746	LAYN
0204381	0.6685055	4	6	2	
ENSG0000	2.1343768	4.1126544	0.0166729	0.0999437	TCF7
0081059	2	4	9	2	

Supplementary Table 4. RNAseq logFC results for the genes from qRT-PCR validation

Comparisons of RA-FLS cells gene expression changes (Log2 Fold Change) in DEGs (Stim vs. Unstim, ABT-317 1 μ M (Stim) vs. Stim).

Gene	logFC (Stim vs Unstim)	logFC (ABT317 vs Stim)
IL32	8.24	-1.44
PGK1	1.95	-1.30
HIF1A	1.38	-0.85
PLOD2	3.70	-1.05
P4HA1	1.34	-0.48
VEGFA	1.02	-0.61
SLC2A1	2.17	-1.59
LOXL3	1.25	-0.63
HK2	3.79	-0.96
LOX	0.30	-0.95

Supplementary Table 5. Top marker genes in each cluster

Total 87,108 cells were clustered by Seurat clustering method (resolution = 0.2). For each individual cluster, we identified the top ten genes that were differentially expressed in a cluster compared to others by Seurat's *FindAllMarker* function. Top 10 marker genes were identified by *p* adjusted values.

p_val	avg_log2F C	pct.1	pct.2	p_val_adj	cluster	gene	diff
8.76E-94	1.6215341 2	0.802	0.382	1.22E-89	0	FHL1	0.42
1.77E-80	1.4125076	0.844	0.535	2.46E-76	0	TXNRD1	0.309
9.98E-74	1.4455726 9	0.861	0.552	1.38E-69	0	CCN2	0.309
2.46E-64	1.0339714	0.777	0.474	3.41E-60	0	PSAT1	0.303
1.45E-52	1.6385113 6	0.577	0.229	2.01E-48	0	GREM2	0.348
2.77E-52	1.3723964 1	0.628	0.285	3.84E-48	0	HSPB7	0.343
1.37E-44	1.6353581 4	0.62	0.289	1.90E-40	0	CEMIP	0.331
6.35E-220	3.1856031	0.913	0.365	8.81E-216	1	CXCL10	0.548
2.49E-199	2.8597594 9	0.895	0.324	3.45E-195	1	CXCL9	0.571
1.15E-182	3.1197295 9	0.819	0.207	1.60E-178	1	CXCL11	0.612
5.83E-176	1.7500711 5	0.938	0.588	8.09E-172	1	IFI6	0.35
5.71E-173	2.2320754 4	0.872	0.384	7.93E-169	1	IDO1	0.488
2.57E-171	3.2804632 7	0.798	0.213	3.56E-167	1	CCL8	0.585
6.68E-170	1.7968692 4	0.934	0.563	9.27E-166	1	ISG15	0.371
4.39E-169	1.6858434 9	0.938	0.577	6.09E-165	1	GBP1	0.361
3.67E-159	1.7562053 7	0.927	0.512	5.09E-155	1	IL32	0.415
5.92E-155	1.5946256 1	0.924	0.499	8.22E-151	1	IRF1	0.425
1.19E-69	1.4209489	0.804	0.464	1.65E-65	2	CXCL3	0.34
1.81E-59	1.5441796 9	0.636	0.289	2.52E-55	2	CXCL2	0.347

1.16E-36	0.7643208 6	0.849	0.542	1.62E-32	2	PSMB9	0.307
1.57E-299	3.7823529 4	1	0.399	2.18E-295	3	CHI3L1	0.601
1.04E-132	3.0913926 5	0.719	0.26	1.45E-128	4	PRG4	0.459
2.66E-67	2.2307596 9	0.672	0.371	3.70E-63	4	PENK	0.301
0	6.2894140 5	1	0.153	0	5	MMP3	0.847
4.47E-112	1.6442869 2	0.985	0.631	6.21E-108	5	CXCL1	0.354
8.07E-95	1.5917683	0.957	0.566	1.12E-90	5	CXCL8	0.391
1.05E-91	1.1895793 9	0.985	0.672	1.46E-87	5	CXCL6	0.313
2.27E-89	1.4379120 7	0.922	0.513	3.15E-85	5	CXCL3	0.409
1.89E-87	1.5352638 6	0.943	0.606	2.62E-83	5	TNFAIP6	0.337
1.05E-64	1.2453330 3	0.891	0.503	1.45E-60	5	C15orf48	0.388
1.43E-62	0.9804661 8	0.889	0.481	1.98E-58	5	GBP2	0.408
1.11E-60	0.9798208	0.958	0.634	1.54E-56	5	IFI27	0.324
2.97E-59	1.6684681 2	0.635	0.27	4.12E-55	5	CXCL5	0.365
0	5.9382871 5	1	0.1	0	6	TRH	0.9
1.62E-54	1.0841279 3	0.798	0.487	2.25E-50	6	FHL1	0.311
0	6.5016100 3	0.995	0.083	0	7	KRT14	0.912
2.49E-162	4.2549172 1	0.641	0.053	3.45E-158	7	KRT16	0.588
1.60E-160	1.9289362 1	0.973	0.626	2.22E-156	7	CCN2	0.347
1.72E-128	1.6237451	0.936	0.483	2.39E-124	7	FHL1	0.453
1.00E-124	2.1321634 6	0.757	0.289	1.39E-120	7	DSP	0.468
9.15E-124	2.0284478 4	0.804	0.315	1.27E-119	7	SCUBE3	0.489
4.87E-104	1.1388738 3	0.953	0.644	6.76E-100	7	LMO7	0.309

5.61E-97	2.2759841 4	0.647	0.177	7.79E-93	7	PODXL	0.47
1.14E-93	1.259735	0.899	0.517	1.58E-89	7	CD248	0.382
1.87E-93	1.2739234 9	0.913	0.563	2.60E-89	7	THY1	0.35
0	5.7325956 6	0.997	0.175	0	8	MT1G	0.822
1.18E-268	2.9510488 7	0.997	0.518	1.64E-264	8	MT1M	0.479
7.42E-266	2.8719050 5	0.996	0.597	1.03E-261	8	MT1X	0.399
8.71E-203	3.0309465 3	0.842	0.179	1.21E-198	8	MT1F	0.663
7.30E-175	5.9496673	0.6	0.018	1.01E-170	8	MT1H	0.582
5.11E-120	1.2511361 5	0.992	0.589	7.09E-116	8	IL32	0.403
4.60E-117	1.2572084 7	0.993	0.631	6.39E-113	8	ISG15	0.362
5.11E-114	1.4673726 7	0.957	0.511	7.09E-110	8	C15orf48	0.446
4.45E-107	1.0757924	0.995	0.643	6.18E-103	8	GBP1	0.352
1.22E-104	1.0144920 1	0.987	0.632	1.70E-100	8	LAP3	0.355

Supplementary Table 6. Differentially expressed genes between cluster 2 and 5

We identified the differentially expressed genes between clusters 2 and 5 by Seurat's *FindMarker* function using a threshold of p adjusted value <0.1 (FDR $<10\%$).

Gene	p_val	avg_log2F C	cluster2	cluster5	p_val_adj
MMP3	0	5.5397392	0.25	1	0
		3			
PLA2G2A	1.18E-23	3.3301623	0.038	0.184	1.64E-19
		2			
MMP12	4.86E-22	3.1867029	0.019	0.129	6.74E-18
		4			
LBP	3.03E-22	2.3928799	0.033	0.157	4.21E-18
		6			
MMP1	3.70E-31	2.3612078	0.113	0.296	5.13E-27
		3			
CHI3L1	5.02E-31	2.1945976	0.434	0.62	6.96E-27
		7			
CFI	4.65E-22	2.1761069	0.036	0.143	6.45E-18
		3			
MT1G	1.19E-16	2.0975019	0.25	0.389	1.65E-12
		9			
CHI3L2	2.24E-16	1.9600709	0.063	0.187	3.11E-12
		8			
CP	3.44E-15	1.9544086	0.033	0.12	4.77E-11
		7			
CCL8	2.57E-20	1.7578704	0.31	0.463	3.57E-16
		5			
MXRA5	6.22E-07	1.6888235	0.034	0.1	0.0086284
		3			1
LUM	3.11E-54	1.6430028	0.636	0.829	4.32E-50
		7			
MAFB	1.60E-08	1.6034732	0.039	0.11	0.0002219
		5			1
SLC2A5	5.31E-21	1.5745568	0.094	0.22	7.36E-17
		9			
ARHGAP28	3.35E-14	1.5695836	0.071	0.18	4.64E-10
		1			
CCL5	4.39E-20	1.5518124	0.161	0.3	6.08E-16
		4			
TNFAIP6	7.73E-54	1.4849029	0.809	0.947	1.07E-49
SOX5	1.08E-09	1.4178289	0.045	0.109	1.50E-05
		1			

CFB	1.80E-29	1.4012713 2	0.382	0.579	2.50E-25
CXCL10	1.07E-23	1.3677039 3	0.532	0.647	1.49E-19
SGCA	4.49E-08	1.3312606 5	0.053	0.116	0.0006236 1
CD38	1.37E-12	1.3208517 9	0.076	0.165	1.90E-08
PALMD	1.04E-08	1.3047375 2	0.047	0.104	0.0001443 2
EIF1AY	1.20E-10	1.2522634 2	0.057	0.135	1.67E-06
RSPO3	2.06E-07	1.2262400 4	0.115	0.217	0.0028559 9
CXCL9	6.34E-34	1.2059834 2	0.472	0.659	8.80E-30
DPP4	8.27E-13	1.1852103 6	0.166	0.275	1.15E-08
CXCL11	6.13E-16	1.1849036 7	0.312	0.431	8.51E-12
SERPINA1	1.23E-08	1.1799652 9	0.148	0.249	0.0001709 1
ITGB8	2.24E-23	1.1732394 3	0.187	0.311	3.11E-19
C11orf96	4.73E-08	1.1642995 9	0.103	0.209	0.0006563 4
PRG4	6.36E-06	1.1593966 7	0.262	0.334	0.0881859
ROBO1	6.25E-16	1.1572682 5	0.209	0.344	8.68E-12
SOD3	2.98E-18	1.1274165 2	0.164	0.292	4.13E-14
HSD11B1	7.73E-16	1.1110707 8	0.14	0.267	1.07E-11
CCL7	1.42E-07	1.0748073 3	0.226	0.32	0.0019717 4
SELENOP	5.39E-06	1.0470757 4	0.072	0.137	0.0747519
VCAM1	5.72E-32	1.0293931 9	0.418	0.615	7.94E-28
PDPN	3.23E-36	1.0266555 8	0.511	0.718	4.48E-32
HTRA1	5.18E-23	1.0253790 2	0.552	0.694	7.18E-19

CCN5	2.37E-33	1.0216393 8	0.457	0.65	3.29E-29
MCC	6.02E-07	1.0111610 6	0.073	0.134	0.0083538 3
TNFSF10	2.11E-07	0.9672472	0.134	0.208	0.0029311 7
SLC2A1	3.01E-06	0.9543360 6	0.068	0.114	0.0417778
CTSF	2.55E-09	0.9532081 7	0.132	0.226	3.54E-05
RSAD2	3.32E-18	0.9480850 7	0.233	0.37	4.61E-14
CLU	9.64E-51	0.9168415 6	0.771	0.917	1.34E-46
MAP1LC3A	2.57E-13	0.9161061 7	0.303	0.423	3.56E-09
MAN1A1	3.60E-18	0.9077266	0.383	0.545	4.99E-14
MT1F	3.35E-12	0.9039920 8	0.267	0.413	4.65E-08
GPNMB	2.40E-06	0.8810920 6	0.237	0.331	0.0332686 5
RPS4Y1	3.83E-25	0.8806750 8	0.203	0.399	5.31E-21
RCAN1	8.95E-15	0.8784745 3	0.399	0.543	1.24E-10
IFI27	1.24E-46	0.8647231 9	0.821	0.959	1.72E-42
CH25H	8.18E-10	0.8593269 5	0.203	0.32	1.13E-05
COL3A1	4.34E-41	0.8495647	0.849	0.92	6.02E-37
CD40	1.61E-11	0.8424294 8	0.201	0.306	2.23E-07
ADM	1.56E-15	0.8198298 5	0.374	0.507	2.16E-11
CD68	4.91E-12	0.8072934 2	0.395	0.509	6.81E-08
ADGRD1	4.69E-07	0.8047997 9	0.12	0.182	0.0065066 6
CFD	7.33E-28	0.8042262 4	0.531	0.717	1.02E-23
IGFBP5	2.98E-06	0.7823747 2	0.305	0.361	0.041364
AL355607. 2	2.08E-08	0.7801074	0.203	0.311	0.0002889 5

CD82	2.45E-23	0.7565137	0.489	0.673	3.40E-19
		1			
ITGA1	4.43E-06	0.7537803	0.208	0.285	0.0615089
		4			3
TMEM140	6.81E-09	0.7464171	0.135	0.213	9.45E-05
UNC93B1	1.46E-06	0.7377673	0.099	0.151	0.0202965
		7			
BST2	1.52E-26	0.7301561	0.679	0.832	2.11E-22
		4			
NBL1	2.86E-16	0.7088351	0.485	0.612	3.96E-12
		8			
CMPK2	3.84E-13	0.6988953	0.186	0.278	5.32E-09
		6			
INSIG2	5.63E-12	0.6948903	0.285	0.394	7.81E-08
		5			
DKK-1	5.24E-06	0.6902111	0.096	0.135	0.0726585
		8			6
IFIT1	3.08E-13	0.6885177	0.341	0.471	4.27E-09
		6			
BATF3	1.54E-06	0.6884704	0.079	0.119	0.0214010
		2			1
C15orf48	3.23E-20	0.6878422	0.737	0.886	4.48E-16
		3			
GREM1	1.85E-08	0.6655821	0.231	0.31	0.0002566
		1			8
DCN	3.86E-55	0.6639703	0.97	0.996	5.35E-51
		7			
SERPING1	2.79E-30	0.6548470	0.631	0.794	3.87E-26
		1			
CA12	1.48E-14	0.6473124	0.489	0.609	2.06E-10
		8			
DDX58	6.04E-12	0.6433042	0.365	0.469	8.38E-08
		9			
NDUFA4L2	3.86E-15	0.6284666	0.684	0.755	5.36E-11
		8			
IRF7	7.26E-08	0.6278403	0.218	0.302	0.0010076
		6			
SFRP4	9.10E-07	0.6275059	0.335	0.41	0.0126199
		7			4
MX1	5.75E-31	0.6271335	0.675	0.84	7.97E-27
		8			
FAM162A	2.31E-09	0.6207491	0.438	0.524	3.21E-05
		2			

ACSL4	9.43E-08	0.6188849 5	0.524	0.571	0.0013077 5
CTHRC1	4.14E-10	0.6161177 8	0.449	0.544	5.74E-06
APOL1	1.10E-16	0.6064512 5	0.517	0.672	1.53E-12
CXCL8	6.01E-22	0.6045096 5	0.815	0.952	8.33E-18
MT1X	8.03E-14	0.6034018 7	0.795	0.893	1.11E-09
IFI6	7.37E-44	0.5875255 7	0.866	0.987	1.02E-39
FAP	7.89E-07	0.5857478 9	0.331	0.409	0.0109420 2
TYMP	8.87E-26	0.5808247 3	0.749	0.894	1.23E-21
NRP2	3.07E-24	0.5770368 4	0.609	0.766	4.26E-20
PROCR	6.76E-09	0.5728434 6	0.396	0.48	9.38E-05
LGALS3BP	1.78E-07	0.5696108	0.346	0.437	0.0024684 2
IFIH1	6.94E-09	0.5671877 3	0.425	0.531	9.62E-05
MMP2	1.78E-42	0.5664500 6	0.927	0.969	2.47E-38
HLA-DRA	1.74E-13	0.5601698 7	0.571	0.71	2.41E-09
PTGES	3.04E-26	0.5598600 6	0.638	0.793	4.22E-22
CREG1	2.44E-09	0.5593603 8	0.372	0.468	3.38E-05
CXCL1	6.35E-14	0.5576812 5	0.887	0.983	8.80E-10
IL18BP	2.97E-07	0.5525986 7	0.222	0.296	0.0041186 8
FCGRT	1.48E-10	0.5513028 7	0.425	0.523	2.05E-06
HAPLN3	5.29E-10	0.5473718 3	0.438	0.529	7.34E-06
TENT5A	3.71E-09	0.5457214 2	0.353	0.43	5.14E-05
EPB41L3	4.38E-06	0.5427365 8	0.327	0.403	0.0607177 1

CEBPB	1.80E-12	0.5414580 2	0.466	0.551	2.50E-08
GYPC	2.20E-19	0.5401057 8	0.555	0.667	3.06E-15
CTSS	4.30E-25	0.5392160 3	0.677	0.828	5.97E-21
SLC16A3	5.80E-11	0.5383378 9	0.415	0.505	8.04E-07
TXNIP	1.46E-11	0.5340598 3	0.406	0.501	2.03E-07
WNT5A	9.08E-07	0.5269054 6	0.436	0.529	0.0126030 9
GBP2	1.80E-33	0.5251989 1	0.731	0.891	2.49E-29
GCH1	6.91E-08	0.5217341 3	0.259	0.338	0.0009592 8
TNC	5.12E-24	0.5212213 9	0.807	0.887	7.11E-20
GFPT2	2.93E-06	0.5207280 3	0.417	0.527	0.0406182 5
GBP4	1.85E-25	0.5197114 8	0.621	0.774	2.57E-21
BNIP3	2.14E-15	0.5170042 4	0.739	0.804	2.96E-11
PLSCR1	2.95E-14	0.5148641 9	0.549	0.676	4.10E-10
SAT1	2.32E-09	0.5136670 6	0.697	0.796	3.22E-05
GBP1	7.90E-29	0.5132319 7	0.867	0.988	1.10E-24
GLIS3	1.98E-08	0.5013969 8	0.275	0.35	0.0002741 1
ETV7	1.88E-08	0.4966696 1	0.303	0.394	0.0002606 6
C1R	2.81E-32	0.4941812 2	0.856	0.954	3.89E-28
IFIT3	5.94E-20	0.4873493 1	0.728	0.841	8.24E-16
IFI30	9.46E-27	0.4778659 9	0.827	0.936	1.31E-22
CFH	1.26E-13	0.4764016 2	0.559	0.672	1.74E-09
HLA-C	2.02E-40	0.4749451 1	0.932	0.993	2.80E-36

SIRPA	1.51E-06	0.4674383	0.305	0.376	0.0209838
		4			8
FTH1	4.68E-36	0.4631310	1	1	6.50E-32
		4			
CTSA	1.67E-14	0.4626335	0.606	0.681	2.32E-10
		2			
IFITM3	8.40E-46	0.4575681	0.98	1	1.17E-41
		7			
ISG15	7.86E-26	0.4574802	0.863	0.984	1.09E-21
		7			
GBP3	6.93E-22	0.4558245	0.712	0.823	9.62E-18
		8			
NFKBIA	1.34E-18	0.4535504	0.67	0.784	1.86E-14
		1			
NPC2	2.08E-15	0.4509897	0.68	0.749	2.89E-11
		6			
C1S	5.32E-28	0.4426373	0.794	0.902	7.38E-24
		6			
PSAP	3.87E-13	0.4426111	0.711	0.772	5.37E-09
		5			
MT1M	6.53E-15	0.4417308	0.74	0.855	9.05E-11
		2			
SELENOM	2.12E-37	0.4402534	0.983	0.995	2.94E-33
		4			
HLA-E	9.56E-25	0.4362670	0.89	0.974	1.33E-20
		7			
ARID5B	1.76E-16	0.4359804	0.726	0.789	2.45E-12
		2			
HLA-DRB1	2.69E-08	0.4350660	0.534	0.627	0.0003726
		3			3
CTSD	4.64E-07	0.4348715	0.576	0.628	0.0064350
		4			1
OAS1	3.32E-10	0.4319008	0.466	0.575	4.61E-06
		3			
PRRX1	5.03E-11	0.4304446	0.696	0.743	6.98E-07
		2			
B2M	2.73E-52	0.4304257	1	1	3.78E-48
		9			
SP110	5.51E-07	0.4213708	0.345	0.416	0.0076456
		7			
WTAP	9.25E-11	0.4212262	0.669	0.737	1.28E-06
		3			
HLA-F	4.28E-07	0.4212032	0.353	0.44	0.0059413
					9

HLA-B	5.59E-34	0.4147958	0.944	1	7.76E-30
		8			
HERC6	6.39E-08	0.4121338	0.314	0.389	0.0008860
		8			6
ITM2B	3.54E-36	0.4068749	0.988	0.997	4.91E-32
LY6E	8.54E-25	0.4061752	0.941	0.976	1.19E-20
C1QTNF1	5.36E-06	0.3954706	0.404	0.476	0.0743377
					8
IFITM1	4.25E-09	0.3865228	0.358	0.432	5.90E-05
		2			
STAT2	2.72E-07	0.3844002	0.51	0.595	0.0037712
					2
PGK-†1.00	7.47E-14	0.3832093	0.841	0.849	1.04E-09
		7			
APOL2	1.34E-10	0.3811544	0.472	0.548	1.86E-06
		2			
CD47	1.80E-07	0.3802606	0.696	0.738	0.0024936
		8			9
CEBPD	1.92E-08	0.3799395	0.511	0.588	0.0002660
		1			6
SCARB2	3.13E-13	0.3789352	0.726	0.762	4.34E-09
		3			
UGP2	3.80E-08	0.3780965	0.671	0.705	0.0005271
		4			2
IFI35	2.56E-17	0.3701995	0.723	0.845	3.56E-13
		1			
PNRC1	2.88E-13	0.3698319	0.674	0.753	3.99E-09
		3			
SECTM1	4.70E-06	0.3696615	0.318	0.375	0.0651652
		2			5
VAMP5	1.73E-21	0.3694689	0.917	0.982	2.40E-17
		9			
IL6	4.29E-06	0.3621264	0.728	0.818	0.0595404
		9			1
HLA-A	1.41E-25	0.3597021	0.972	0.999	1.96E-21
		9			
GOLM1	1.48E-12	0.3587544	0.677	0.729	2.05E-08
		5			
IFITM2	2.70E-10	0.3565767	0.762	0.789	3.74E-06
TNFSF13B	5.86E-11	0.3559143	0.464	0.554	8.14E-07
		3			
SLC39A14	3.22E-10	0.3486967	0.656	0.76	4.47E-06
		2			

CYBA	1.51E-12	0.3465039 7	0.737	0.774	2.09E-08
RARRES1	2.02E-11	0.3439850 7	0.619	0.709	2.80E-07
ISG20	1.19E-12	0.3362376 7	0.636	0.742	1.65E-08
CXCL3	4.53E-06	0.3330468 6	0.812	0.919	0.0629140 3
SAMHD1	7.15E-07	0.3321613 2	0.487	0.57	0.0099184 8
SOD2	8.09E-19	0.3310506 8	0.912	0.999	1.12E-14
IL6ST	7.14E-07	0.3283377 5	0.769	0.805	0.0099028 9
SQOR	1.92E-06	0.3159303 4	0.611	0.7	0.0266259 7
TMEM179B	3.23E-07	0.315844	0.635	0.696	0.0044855
VKORC1	1.53E-08	0.3137839 9	0.861	0.876	0.0002117 6
ABI3BP	1.22E-06	0.3102419 8	0.496	0.537	0.0168895 8
TMEM59	5.95E-11	0.3058754 3	0.866	0.883	8.25E-07
TAP1	9.48E-09	0.3008223 5	0.687	0.777	0.0001314 9
DTX3L	3.44E-06	0.2997814 5	0.376	0.43	0.0477005 7
IGFBP4	6.92E-22	0.2980234 5	0.991	0.995	9.60E-18
OAS3	9.72E-08	0.2971668 9	0.422	0.483	0.0013487 1
MIF	2.70E-20	0.2956744 1	0.995	0.997	3.74E-16
HM13	3.36E-07	0.2942395 5	0.675	0.694	0.0046646 5
TPI1	3.05E-16	0.2931049 8	0.983	0.982	4.24E-12
DYNLT1	8.95E-12	0.2882722 3	0.922	0.929	1.24E-07
PGAM1	2.95E-06	0.2880172	0.675	0.69	0.0409181 3
RIOK3	3.45E-06	0.2874995 2	0.434	0.456	0.0479300 8

P4HA1	3.94E-07	0.2844800	0.724	0.773	0.0054711
		3			4
IDO1	1.19E-12	0.2838901	0.638	0.752	1.65E-08
ADAR	1.07E-06	0.2815709	0.551	0.609	0.0148683
		9			7
PLAAT4	1.19E-13	0.2728112	0.796	0.916	1.66E-09
		3			
TMEM165	6.60E-06	0.2718637	0.698	0.719	0.0916310
		2			1
EPSTI1	1.67E-08	0.2690736	0.67	0.772	0.0002314
		2			7
PARP14	3.07E-13	0.2668839	0.787	0.896	4.25E-09
		2			
CXCL5	1.11E-06	0.2659276	0.518	0.637	0.0153531
		6			
C4orf3	7.78E-07	0.2614188	0.816	0.823	0.0107930
		5			8
IRF1	9.40E-13	0.2596850	0.821	0.937	1.30E-08
		2			
PSMB8	5.51E-09	0.2588450	0.807	0.9	7.64E-05
		8			
PSME2	3.69E-15	0.2571726	0.925	0.985	5.12E-11
		3			
HSPA5	4.27E-09	0.2538400	0.973	0.975	5.93E-05
		6			
HIF1A	5.00E-06	0.2526848	0.854	0.844	0.0693031
		6			9
PSME1	4.26E-08	0.2521717	0.876	0.933	0.0005905
		3			8
RPL37	9.55E-14	-	0.997	0.99	1.32E-09
		0.2502589			
PTMA	2.21E-08	-	0.998	0.995	0.0003070
		0.2505075			1
EIF1	1.33E-12	-	0.997	0.991	1.85E-08
		0.2511485			
RPL36A	3.16E-11	-	0.969	0.925	4.39E-07
		0.2515416			
RPS2	7.03E-22	-	1	0.998	9.75E-18
		0.2521662			
MRPS10	6.88E-07	-	0.428	0.344	0.0095518
		0.2521808			5
MZT2B	8.63E-09	-0.252995	0.822	0.739	0.0001197
					9

RPSA	2.36E-16	-	0.997	0.984	3.27E-12
		0.2535439			
EIF4G2	1.08E-10	-	0.842	0.771	1.50E-06
		0.2540762			
CCT2	3.44E-09	-0.254735	0.593	0.503	4.77E-05
RARS	1.34E-06	-	0.46	0.369	0.0185933
		0.2549131			1
EEF1G	1.56E-10	-	0.941	0.878	2.16E-06
		0.2562597			
HNRNPU	1.84E-07	-	0.74	0.668	0.0025590
		0.2565144			3
RRP15	7.25E-07	-0.258051	0.23	0.176	0.0100651
					8
PPP1R10	3.29E-06	-0.258732	0.199	0.156	0.0455765
					5
RPL6	4.95E-23	-	0.998	0.991	6.87E-19
		0.2607028			
PXDN	5.53E-07	-	0.561	0.459	0.0076758
		0.2610567			8
RAB32	1.94E-08	-	0.639	0.537	0.0002686
		0.2615658			9
RPL27	1.45E-16	-0.261779	0.987	0.969	2.02E-12
PCBP2	5.89E-06	-	0.767	0.688	0.0817327
		0.2638647			9
HSPA8	1.42E-06	-	0.887	0.844	0.0197230
		0.2640342			1
RPL23	2.26E-12	-	0.98	0.955	3.13E-08
		0.2649346			
ATP5IF1	2.77E-06	-	0.69	0.596	0.0383949
		0.2653178			2
H2AFY	1.09E-06	-	0.419	0.332	0.0151371
		0.2660471			7
NME1	1.41E-06	-	0.69	0.596	0.0195531
		0.2670078			8
TCEA1	5.07E-06	-	0.766	0.684	0.070331
		0.2675424			
RPS6	1.15E-27	-	0.999	0.997	1.60E-23
		0.2710503			
RPL31	6.00E-08	-	0.892	0.802	0.0008323
		0.2713266			7
RPL7	6.54E-14	-0.27303	0.981	0.95	9.07E-10
EPRS	3.05E-07	-	0.707	0.618	0.0042306
		0.2731064			2

LARP6	2.51E-06	-	0.466	0.372	0.0348600
		0.2734437			9
BANF1	8.82E-07	-	0.684	0.592	0.0122387
		0.2764868			
EIF2S2	1.70E-06	-	0.885	0.813	0.0236215
		0.2768923			9
RPL35	8.71E-21	-	0.995	0.983	1.21E-16
		0.2781205			
NDUFAF2	5.81E-07	-	0.359	0.276	0.0080637
		0.2790784			5
SNHG29	4.91E-13	-	0.935	0.852	6.81E-09
		0.2829808			
HP1BP3	4.47E-06	-	0.591	0.49	0.0619803
		0.2836473			
CCT4	4.92E-06	-	0.59	0.485	0.0682406
		0.2840231			7
RPS17	3.34E-16	-	0.961	0.928	4.63E-12
		0.2846677			
RPL26	9.94E-25	-	1	0.994	1.38E-20
		0.2855855			
RBM3	3.76E-06	-	0.85	0.783	0.0522136
		0.2873754			8
TALDO1	7.78E-09	-	0.706	0.597	0.0001079
		0.2877835			
TAF12	1.40E-06	-	0.25	0.192	0.0193704
		0.2898023			3
PDLIM2	3.57E-06	-	0.665	0.571	0.0495253
		0.2898724			8
TOMM5	5.57E-07	-	0.71	0.628	0.0077289
		0.2940175			7
HNRNPA1	1.01E-06	-0.294853	0.758	0.68	0.0140283
					6
EIF3F	8.33E-09	-	0.725	0.614	0.0001155
		0.2949413			1
EIF4EBP1	5.58E-07	-	0.677	0.592	0.0077462
		0.2949881			2
FAM200B	2.86E-06	-	0.189	0.138	0.0396643
		0.2949972			2
RPL17	3.93E-27	-	0.999	0.996	5.46E-23
		0.2967814			
RPL37A	2.05E-19	-	0.995	0.982	2.85E-15
		0.2991626			
SRP9	7.96E-07	-	0.592	0.493	0.0110506
		0.2998645			2

RPL35A	2.37E-26	-	0.995	0.976	3.29E-22
		0.3014783			
RPS8	6.94E-32	-	1	0.999	9.63E-28
		0.3025967			
RBBP7	6.77E-06	-	0.482	0.373	0.0939270
		0.3054081			6
RPS21	7.70E-26	-	0.984	0.959	1.07E-21
		0.3078247			
SMURF2	3.18E-06	-	0.458	0.365	0.0441346
		0.3078289			7
TUBA1A	2.15E-07	-	0.703	0.601	0.0029783
		0.3082069			8
KTN1	3.59E-11	-	0.823	0.741	4.98E-07
		0.3088319			
RABGEF1	4.95E-07	-	0.236	0.177	0.0068657
		0.3089289			4
CEBPZ	7.16E-07	-	0.335	0.261	0.0099305
		0.3140746			6
TPRKB	5.27E-06	-	0.281	0.21	0.0731033
		0.3141464			3
YWHAQ	5.41E-06	-	0.712	0.624	0.0750033
		0.3147049			1
NDUFA7	1.57E-06	-	0.44	0.339	0.0217415
		0.3149953			8
DKC1	6.17E-06	-0.315152	0.239	0.173	0.0856410
					1
RPL3	7.55E-32	-	0.998	0.989	1.05E-27
		0.3158587			
CALU	2.41E-11	-	0.977	0.95	3.34E-07
		0.3185223			
POLR2L	1.83E-09	-	0.924	0.878	2.54E-05
		0.3185323			
GTF2H5	3.56E-08	-	0.613	0.497	0.0004938
		0.3185585			4
PSMG1	3.77E-06	-	0.328	0.246	0.0522794
		0.3191013			5
PABPC1	4.95E-10	-	0.841	0.764	6.86E-06
		0.3199856			
COPS9	2.38E-11	-	0.646	0.535	3.31E-07
		0.3207338			
LARS	1.37E-07	-	0.5	0.393	0.0018983
		0.3226538			8
XRCC5	4.55E-08	-	0.752	0.66	0.0006307
		0.3230723			3

EIF5B	4.42E-07	-	0.714	0.601	0.0061362
		0.3245735			3
YWHAZ	2.65E-10	-	0.85	0.785	3.68E-06
		0.3248179			
TMA7	1.67E-17	-	0.812	0.705	2.32E-13
		0.3259836			
TUBA1C	8.45E-08	-	0.781	0.721	0.0011724
		0.3298329			
USP14	3.11E-08	-	0.535	0.432	0.0004310
		0.3318909			5
STMP1	2.35E-06	-	0.571	0.456	0.0326385
		0.3322822			4
HNRNPA2	1.61E-08	-	0.882	0.822	0.0002226
B1		0.3326349			9
ZFHX4	2.18E-09	-	0.349	0.256	3.03E-05
		0.3350196			
RPS4X	4.62E-33	-	1	0.997	6.42E-29
		0.3354757			
H3F3A	2.99E-12	-	0.91	0.846	4.14E-08
		0.3360159			
PSMD2	1.07E-07	-	0.55	0.441	0.0014914
		0.3366485			3
CD320	3.69E-06	-	0.333	0.246	0.0511738
		0.3386137			6
RALGPS2	5.87E-07	-	0.586	0.47	0.0081436
		0.3402362			2
PTPN11	6.50E-07	-	0.321	0.236	0.0090158
		0.3445134			8
NARS	3.67E-07	-	0.558	0.455	0.0050859
		0.3447701			5
HERC4	2.05E-07	-	0.641	0.548	0.0028408
		0.3452399			1
RHOA	2.27E-13	-	0.881	0.814	3.15E-09
		0.3455522			
PPP1CC	1.83E-09	-	0.311	0.23	2.53E-05
		0.3510193			
PTGR1	4.24E-06	-	0.355	0.267	0.0588303
		0.3514376			7
MFF	3.10E-06	-	0.407	0.31	0.0430293
		0.3532638			5
SERBP1	2.35E-13	-	0.86	0.79	3.26E-09
		0.3546287			
FXVD5	2.58E-09	-	0.702	0.583	3.57E-05
		0.3561989			

NFIB	1.95E-06	-	0.469	0.36	0.0270766
		0.3568847			8
IER2	1.96E-07	-	0.279	0.208	0.0027128
		0.3591018			4
RPL4	2.24E-21	-0.36202	0.952	0.899	3.11E-17
DDAH2	6.32E-07	-	0.46	0.356	0.0087721
		0.3621636			4
PRKDC	1.80E-07	-	0.571	0.483	0.0024927
		0.3655084			8
CNN3	2.20E-07	-	0.595	0.473	0.0030511
		0.3660063			
RNH1	1.92E-09	-	0.803	0.714	2.66E-05
		0.3665824			
GCSH	5.96E-07	-	0.339	0.253	0.0082705
		0.3677563			8
SET	6.16E-09	-	0.854	0.79	8.54E-05
		0.3685838			
UGDH	4.15E-07	-	0.531	0.447	0.0057608
		0.3686228			6
HSPD1	1.85E-10	-	0.819	0.728	2.57E-06
		0.3700651			
TPM2	1.95E-20	-0.37236	0.936	0.866	2.71E-16
ARPC5L	9.59E-07	-	0.417	0.316	0.0133021
		0.3728003			3
SMIM30	6.10E-06	-	0.289	0.215	0.0846145
		0.3743358			
TAGLN	2.53E-07	-	0.718	0.617	0.003515
		0.3752873			
TUBB	2.18E-08	-	0.909	0.868	0.0003028
		0.3788598			3
SNRPD1	4.53E-08	-	0.58	0.469	0.0006289
		0.3790628			1
SLC25A5	6.40E-06	-	0.662	0.552	0.0887252
		0.3796261			7
ROCK1	3.11E-08	-	0.563	0.458	0.0004316
		0.3796972			
EIF3A	2.88E-09	-	0.761	0.662	3.99E-05
		0.3811084			
PPDPF	8.09E-18	-0.383387	0.939	0.878	1.12E-13
CTBP2	4.63E-07	-	0.254	0.183	0.0064245
		0.3908479			5
GARS	5.99E-07	-	0.718	0.611	0.0083128
		0.3919891			3

GNG11	1.43E-09	-	0.777	0.67	1.98E-05
		0.3924082			
ATF5	6.76E-06	-	0.423	0.325	0.0938173
		0.3951383			7
NPM1	1.26E-23	-0.395906	0.965	0.941	1.74E-19
LRRC8D	4.49E-06	-	0.118	0.077	0.0622271
		0.3959331			4
SNRPE	2.62E-13	-0.396271	0.618	0.493	3.64E-09
SRSF3	1.41E-08	-	0.663	0.56	0.000196
		0.3995636			
PERP	1.23E-07	-	0.4	0.292	0.0017103
		0.4011118			2
SLC1A5	5.31E-06	-	0.433	0.323	0.0736713
		0.4035781			3
EIF1AX	4.60E-15	-	0.773	0.693	6.39E-11
		0.4039483			
PA2G4	3.52E-11	-	0.686	0.575	4.88E-07
		0.4065999			
CENPS	3.30E-06	-	0.185	0.13	0.0457871
		0.4066107			
CEP170	4.02E-06	-	0.411	0.305	0.0557617
		0.4075099			5
RALBP1	6.09E-12	-	0.559	0.428	8.45E-08
		0.4079239			
TRIOBP	1.33E-07	-	0.401	0.295	0.0018451
		0.4091514			8
KDELR3	8.76E-09	-	0.42	0.307	0.0001215
		0.4116136			4
TPM3	5.58E-13	-	0.876	0.791	7.74E-09
		0.4131962			
NR2F2	4.45E-06	-	0.154	0.103	0.0617065
		0.4138577			9
RAD21	3.13E-07	-	0.485	0.391	0.0043427
		0.4153068			7
RTN4	8.63E-18	-	0.951	0.914	1.20E-13
		0.4166714			
HNRNPR	2.80E-06	-0.419886	0.578	0.47	0.0388455
					5
HMGB1	6.10E-12	-	0.952	0.943	8.46E-08
		0.4216914			
ACYP1	9.62E-10	-	0.211	0.142	1.33E-05
		0.4223479			
MCM3	7.43E-07	-	0.205	0.137	0.0103137
		0.4231393			7

SLC7A5	6.91E-06	-	0.38	0.27	0.0958246
		0.4232689			7
PBX1	1.85E-08	-	0.395	0.302	0.0002567
		0.4241862			8
GAS5	5.39E-08	-	0.62	0.482	0.0007483
		0.4248004			9
SFPQ	2.84E-08	-0.429304	0.456	0.351	0.0003942
CAPG	2.41E-07	-	0.466	0.342	0.0033399
		0.4323792			3
LRRFIP2	2.11E-07	-	0.37	0.268	0.0029324
		0.4344113			5
HOMER3	2.81E-11	-	0.234	0.156	3.90E-07
		0.4355541			
LSM- $\uparrow$ 4.00	1.48E-10	-0.436462	0.502	0.393	2.05E-06
RPS6KA2	9.34E-08	-	0.316	0.214	0.0012957
		0.4392286			
HMGA2	2.96E-06	-	0.222	0.155	0.0411046
		0.4408973			7
NAP1L1	1.28E-17	-	0.864	0.776	1.77E-13
		0.4418371			
DESI2	2.77E-06	-	0.282	0.199	0.03837
		0.4455696			
OSBPL1A	7.20E-06	-	0.224	0.148	0.0999396
		0.4494891			5
UAP1	2.00E-11	-	0.603	0.476	2.77E-07
		0.4508401			
CACYBP	1.42E-06	-	0.541	0.414	0.0197220
		0.4556656			1
CLIP4	4.96E-06	-	0.133	0.091	0.0687683
		0.4579764			
CCND1	3.05E-12	-	0.721	0.609	4.23E-08
		0.4579861			
MZT1	1.90E-08	-	0.322	0.231	0.0002639
		0.4624431			5
NIN	5.35E-06	-	0.199	0.129	0.0742749
		0.4642712			
BUB3	2.79E-06	-	0.465	0.369	0.0387776
		0.4659975			2
COTL1	6.54E-16	-	0.624	0.482	9.07E-12
		0.4683683			
TSEN15	1.48E-06	-0.469491	0.209	0.141	0.0205086
					2
LSM- $\uparrow$ 5.00	1.41E-08	-	0.513	0.391	0.0001956
		0.4698644			

TKT	8.60E-12	-	0.542	0.409	1.19E-07
		0.4709076			
MAP4K4	6.69E-06	-	0.325	0.235	0.0928744
		0.4716254			5
HNRNPAB	1.39E-10	-	0.642	0.528	1.93E-06
		0.4733995			
FEZ1	1.96E-06	-	0.195	0.127	0.0272179
		0.4808091			5
RPA3	1.36E-09	-	0.416	0.309	1.89E-05
		0.4829177			
SMS	2.51E-08	-	0.574	0.448	0.0003480
		0.4832159			7
PCNA	4.07E-06	-	0.326	0.231	0.0565188
		0.4844148			9
GLIPR1	5.02E-12	-	0.54	0.404	6.97E-08
		0.4858036			
GALNT1	2.64E-08	-	0.566	0.438	0.0003664
		0.4882643			9
ALCAM	1.11E-11	-	0.822	0.687	1.54E-07
		0.4896257			
LMNA	2.99E-13	-	0.88	0.82	4.15E-09
		0.4897162			
H2AFV	3.31E-08	-	0.638	0.503	0.0004591
		0.4911768			5
PSIP1	1.61E-08	-	0.579	0.47	0.0002239
		0.4912959			3
LGALS1	2.96E-66	-0.491747	1	0.998	4.11E-62
C11orf24	1.19E-06	-	0.183	0.119	0.0165619
		0.4934371			9
DUT	2.31E-11	-	0.665	0.549	3.20E-07
		0.4944244			
DDX46	1.58E-10	-0.494738	0.417	0.301	2.19E-06
NFIA	2.31E-06	-	0.33	0.221	0.0320538
		0.4948599			2
FH	1.05E-06	-0.498899	0.22	0.149	0.0145603
					6
RANBP1	1.06E-13	-	0.703	0.592	1.46E-09
		0.5007922			
SGTB	7.82E-07	-	0.18	0.118	0.0108548
		0.5031593			2
KAZALD1	3.55E-08	-	0.249	0.165	0.0004926
		0.5035792			8
CORO1C	1.39E-09	-	0.385	0.277	1.92E-05
		0.5047159			

NT5E	2.50E-15	-	0.824	0.677	3.47E-11
		0.5114433			
TUBA1B	2.99E-15	-	0.939	0.905	4.15E-11
		0.5121648			
BZW2	8.06E-07	-	0.212	0.137	0.0111859
		0.5121819			3
BDNF	1.58E-08	-	0.404	0.284	0.0002189
		0.5152368			3
MRE11	6.14E-06	-0.515528	0.104	0.062	0.0851400
					5
AHNAK	5.19E-16	-	0.814	0.707	7.20E-12
		0.5174653			
UCHL5	3.75E-08	-	0.203	0.132	0.0005196
		0.5229436			2
SNHG5	7.92E-17	-	0.649	0.518	1.10E-12
		0.5321634			
DEK	1.86E-10	-	0.778	0.676	2.58E-06
		0.5332504			
PFN2	2.84E-11	-	0.306	0.207	3.94E-07
		0.5345117			
NLN	6.54E-08	-	0.178	0.111	0.0009069
		0.5346806			8
ANXA2	4.01E-31	-	0.993	0.985	5.56E-27
		0.5353996			
SH2D4A	7.44E-11	-	0.482	0.345	1.03E-06
		0.5391703			
SMC1A	3.45E-06	-	0.342	0.242	0.0479240
		0.5422322			5
GNPNAT1	7.02E-09	-	0.468	0.34	9.74E-05
		0.5426125			
HMGA1	2.24E-08	-	0.522	0.406	0.0003106
		0.5435236			5
ACOT7	5.90E-07	-	0.181	0.112	0.0081842
		0.5471375			1
FLRT2	5.06E-06	-	0.243	0.154	0.0702107
		0.5539691			2
PHGDH	2.80E-06	-	0.475	0.327	0.0389092
		0.5564176			6
HMGN2	5.50E-10	-	0.791	0.718	7.63E-06
		0.5575542			
DNMT1	1.16E-06	-	0.423	0.301	0.0161167
		0.5695758			2
MAP3K20	1.26E-11	-	0.348	0.231	1.75E-07
		0.5704064			

PYCR1	1.13E-07	-	0.198	0.12	0.0015678
		0.5795299			3
ZWILCH	2.49E-06	-	0.117	0.067	0.0345203
		0.5799421			
SFRP1	1.18E-06	-	0.257	0.162	0.0164353
		0.5813875			5
NEGR1	2.12E-07	-	0.343	0.222	0.0029413
		0.5823155			3
LMO7	3.56E-08	-	0.516	0.378	0.0004934
		0.5847015			
PSAT1	9.72E-08	-	0.487	0.354	0.0013479
		0.5854268			2
GADD45A	6.91E-06	-	0.201	0.131	0.0958383
		0.5901202			8
CKLF	2.67E-08	-	0.365	0.249	0.0003708
		0.5928819			8
VCAN	2.83E-26	-	0.883	0.707	3.93E-22
		0.5955653			
MFAP5	2.82E-15	-0.60327	0.87	0.719	3.91E-11
ALDH7A1	1.48E-06	-	0.183	0.111	0.0204961
		0.6033158			5
ITGB3BP	5.28E-07	-	0.214	0.136	0.0073223
		0.6045318			9
ITGBL1	2.15E-10	-	0.497	0.352	2.98E-06
		0.6048434			
ANP32B	4.95E-14	-0.604975	0.743	0.615	6.86E-10
ADAMTS6	5.69E-10	-	0.337	0.222	7.89E-06
		0.6078423			
CEP78	2.84E-06	-	0.131	0.074	0.0394666
		0.6080289			2
SPTBN1	3.80E-10	-	0.564	0.407	5.27E-06
		0.6092623			
ZFP36L2	3.99E-10	-	0.323	0.209	5.53E-06
		0.6185184			
MASTL	8.89E-10	-	0.103	0.06	1.23E-05
		0.6244962			
BARD1	1.38E-06	-	0.157	0.096	0.0191919
		0.6269775			1
PSMC3IP	1.07E-06	-	0.113	0.061	0.0148857
		0.6291005			9
SLIT2	7.76E-11	-	0.246	0.154	1.08E-06
		0.6365223			
RHOB	6.55E-06	-0.639984	0.235	0.148	0.0908923
					4

ACAT2	4.75E-06	-	0.113	0.062	0.0659622
		0.6400737			2
CSE1L	2.88E-10	-	0.214	0.127	3.99E-06
		0.6403888			
CD9	1.91E-09	-	0.44	0.304	2.65E-05
		0.6506777			
HELLS	5.84E-08	-	0.22	0.127	0.0008098
		0.6514486			1
MAP1B	2.98E-32	-	0.889	0.759	4.14E-28
		0.6523994			
CKAP5	1.56E-08	-0.654041	0.197	0.12	0.0002158
					2
XIST	2.24E-19	-	0.487	0.298	3.11E-15
		0.6579638			
EFHD2	4.83E-16	-	0.62	0.441	6.70E-12
		0.6782368			
C12orf75	9.88E-14	-	0.608	0.457	1.37E-09
		0.6813858			
YWHAH	8.38E-14	-	0.525	0.381	1.16E-09
		0.6855342			
KITLG	1.95E-07	-	0.249	0.145	0.0027036
		0.6888586			6
ADAMTSL1	3.58E-08	-	0.159	0.087	0.0004967
		0.6889344			9
NUDT1	3.56E-07	-	0.296	0.185	0.0049433
		0.6916097			6
CRABP2	4.89E-10	-	0.14	0.077	6.78E-06
		0.6919074			
CBX5	4.38E-08	-	0.41	0.282	0.0006082
		0.6930228			6
MIS18A	2.76E-06	-	0.129	0.071	0.0383223
		0.7060129			1
HSPB6	4.65E-07	-	0.396	0.252	0.0064465
		0.7102389			1
TMSB4X	6.15E-70	-	0.995	0.981	8.53E-66
		0.7118908			
NCEH1	7.64E-13	-	0.434	0.271	1.06E-08
		0.7151418			
KIF22	1.90E-08	-	0.176	0.097	0.0002637
		0.7206244			7
SAE1	2.36E-13	-0.725059	0.204	0.121	3.27E-09
CLSPN	1.86E-06	-	0.242	0.143	0.0257915
		0.7324862			5
VAT1	3.16E-13	-0.7564	0.323	0.192	4.39E-09

DIAPH1	7.22E-08	-	0.251	0.146	0.0010010
		0.7601438			3
CDC6	7.73E-07	-	0.125	0.061	0.0107211
		0.7654585			
SAC3D1	2.46E-06	-	0.175	0.099	0.0341020
		0.7723221			7
KIF1C	1.33E-07	-	0.112	0.056	0.0018404
		0.7736624			5
PXMP2	4.83E-06	-	0.145	0.074	0.0669797
		0.7772533			
SMC2	5.41E-12	-	0.336	0.216	7.51E-08
		0.7785042			
ECT2	5.74E-10	-	0.243	0.137	7.96E-06
		0.7837239			
UBE2S	2.65E-13	-	0.491	0.372	3.67E-09
		0.7920062			
DTYMK	1.19E-11	-	0.339	0.21	1.65E-07
		0.7965078			
ARL6IP1	1.13E-09	-	0.454	0.334	1.57E-05
		0.8020595			
PTX3	7.95E-19	-	0.809	0.658	1.10E-14
		0.8073308			
KMT5A	5.50E-09	-	0.194	0.105	7.63E-05
		0.8083733			
DHFR	2.76E-08	-	0.261	0.143	0.0003822
		0.8092712			4
JPT1	2.88E-14	-	0.482	0.342	4.00E-10
		0.8095583			
CKS1B	1.90E-13	-	0.371	0.245	2.63E-09
		0.8114038			
ODC1	7.14E-17	-	0.502	0.326	9.90E-13
		0.8127892			
LPCAT2	5.20E-09	-	0.128	0.061	7.21E-05
		0.8163123			
HSPB7	5.06E-11	-	0.275	0.16	7.02E-07
		0.8248676			
CCN2	3.07E-07	-	0.445	0.346	0.0042581
		0.8254999			5
FABP5	4.31E-12	-	0.255	0.149	5.98E-08
		0.8292968			
CENPU	1.15E-08	-	0.189	0.095	0.0001598
		0.8383515			7
RAB3B	5.33E-12	-	0.268	0.151	7.39E-08
		0.8413887			

RRM1	1.93E-11	-	0.31	0.186	2.68E-07
		0.8420688			
MOXD1	1.74E-06	-	0.175	0.099	0.0241800
		0.8455371			5
CDC42EP3	5.38E-13	-	0.271	0.152	7.46E-09
		0.8475293			
ZWINT	4.05E-11	-	0.176	0.082	5.62E-07
		0.8573617			
SLC39A10	7.26E-11	-	0.195	0.102	1.01E-06
		0.8587754			
RPL22L1	2.14E-36	-	0.604	0.416	2.96E-32
		0.8603959			
PRIM2	4.03E-07	-	0.15	0.077	0.0055844
		0.8621829			1
GGH	1.10E-08	-	0.199	0.107	0.0001530
		0.8652187			1
IL1B	3.04E-10	-	0.238	0.142	4.22E-06
		0.8659758			
AHNAK2	8.77E-09	-	0.221	0.118	0.0001216
		0.8704487			6
DBNDD2	5.55E-09	-0.872038	0.118	0.059	7.70E-05
TUBB3	4.00E-18	-	0.429	0.29	5.56E-14
		0.8762924			
ATAD2	2.25E-10	-0.882889	0.257	0.141	3.13E-06
ADAMTS1	4.75E-21	-0.887384	0.634	0.407	6.59E-17
SLIT3	2.04E-06	-	0.181	0.092	0.0283265
		0.8881108			7
CRIP2	2.28E-17	-	0.399	0.224	3.17E-13
		0.8918314			
FAM180A	6.78E-08	-	0.117	0.056	0.0009402
		0.8955008			3
SYNE2	5.50E-06	-	0.151	0.077	0.0762803
		0.8965412			6
SLC38A1	4.61E-14	-	0.224	0.119	6.39E-10
		0.9006199			
DNAJC9	1.35E-09	-0.901897	0.226	0.118	1.88E-05
KRT81	2.63E-06	-	0.109	0.063	0.0365506
		0.9104429			5
NSD2	5.17E-06	-	0.165	0.079	0.0717325
		0.9112941			5
ARHGAP29	6.33E-31	-	0.639	0.407	8.78E-27
		0.9137429			
CTSC	2.51E-11	-0.9139	0.295	0.163	3.49E-07

ANP32E	4.45E-09	-	0.33	0.195	6.17E-05
		0.9201379			
H2AFZ	4.74E-21	-0.924316	0.718	0.617	6.58E-17
NTM	2.55E-14	-	0.361	0.188	3.53E-10
		0.9244162			
ORC6	3.96E-11	-	0.187	0.09	5.49E-07
		0.9282107			
BRCA1	4.28E-06	-	0.177	0.086	0.0593887
		0.9313889			8
EZR	1.82E-17	-	0.328	0.191	2.52E-13
		0.9421629			
HAS2	2.26E-16	-	0.32	0.181	3.13E-12
		0.9498853			
TXNRD1	7.93E-15	-	0.515	0.358	1.10E-10
		0.9554515			
PAWR	2.88E-11	-0.959798	0.263	0.137	4.00E-07
RPL39L	4.16E-08	-	0.165	0.083	0.0005768
		0.9602028			7
NIBAN1	2.41E-07	-	0.123	0.058	0.0033425
		0.9734303			5
KPNA2	4.88E-17	-	0.304	0.189	6.77E-13
		0.9742317			
TMEM106	1.18E-13	-	0.209	0.106	1.64E-09
C		0.9819512			
CCDC18	1.04E-06	-	0.115	0.054	0.0144854
		0.9820812			1
TYMS	5.80E-16	-	0.29	0.147	8.04E-12
		0.9896344			
ADIRF	2.50E-44	-	0.797	0.583	3.47E-40
		0.9936743			
NQO1	6.13E-30	-	0.719	0.522	8.51E-26
		0.9951442			
KRT7	6.21E-22	-	0.439	0.261	8.62E-18
		1.0026029			
MND1	2.89E-06	-	0.107	0.047	0.0401282
		1.0202208			
THY1	7.74E-16	-	0.509	0.323	1.07E-11
		1.0205617			
VEPH1	1.59E-06	-	0.108	0.048	0.0221104
		1.0266078			4
CENPH	3.92E-11	-1.044218	0.149	0.065	5.44E-07
H2AFX	1.41E-10	-	0.193	0.091	1.96E-06
		1.0557891			
CENPK	1.53E-11	-1.083187	0.203	0.094	2.12E-07

TMPO	6.43E-16	-	0.288	0.156	8.92E-12
		1.0876507			
FANCI	2.39E-08	-	0.122	0.05	0.0003317
		1.0982688			6
MYBL1	4.29E-09	-	0.149	0.062	5.96E-05
		1.1112534			
TRIM59	6.33E-14	-	0.166	0.078	8.79E-10
		1.1128141			
RAD51AP1	5.83E-08	-	0.149	0.06	0.0008082
		1.1136631			9
CLDN11	2.35E-12	-	0.257	0.129	3.26E-08
		1.1155851			
ACAN	2.63E-09	-	0.247	0.129	3.65E-05
		1.1236318			
DSP	6.57E-07	-	0.192	0.096	0.0091107
		1.1247977			8
UBE2T	1.09E-11	-	0.232	0.108	1.51E-07
		1.1265387			
CENPM	2.54E-10	-	0.13	0.05	3.52E-06
		1.1336138			
DBF4	8.55E-09	-	0.156	0.07	0.0001186
		1.1364733			8
FBXO5	4.02E-13	-	0.18	0.082	5.58E-09
		1.1379964			
CENPN	6.16E-09	-	0.125	0.05	8.55E-05
		1.1448382			
CKS2	2.90E-13	-	0.332	0.195	4.02E-09
		1.1493841			
PTTG1	5.47E-17	-	0.382	0.225	7.58E-13
		1.1673486			
LINC01133	1.06E-14	-	0.361	0.179	1.47E-10
		1.1687199			
RRM2	1.64E-12	-	0.169	0.061	2.28E-08
		1.1726814			
MELK	3.69E-09	-	0.136	0.053	5.12E-05
		1.1823254			
CIP2A	2.21E-07	-	0.127	0.05	0.0030684
		1.1917488			2
PHF19	1.07E-11	-	0.131	0.053	1.49E-07
		1.1995196			
FHL1	3.75E-18	-	0.351	0.191	5.20E-14
		1.2080813			
GREM2	3.45E-08	-	0.182	0.084	0.0004783
		1.2236027			2

NPR-13.00	7.92E-13	-	0.187	0.081	1.10E-08
		1.2417239			
ESCO2	3.32E-13	-	0.146	0.053	4.61E-09
		1.2434148			
HIST1H1C	5.40E-13	-	0.259	0.137	7.49E-09
		1.2543056			
HMGB3	1.36E-09	-	0.142	0.058	1.89E-05
		1.2549258			
SGO2	1.53E-12	-	0.161	0.072	2.13E-08
		1.2689137			
HIST2H2A	3.66E-12	-	0.155	0.069	5.08E-08
C		1.2716069			
SMC4	1.50E-15	-	0.345	0.19	2.08E-11
		1.2718067			
PCLAF	2.67E-19	-	0.283	0.119	3.71E-15
		1.2775909			
MAD2L1	8.59E-11	-	0.213	0.095	1.19E-06
		1.2937737			
HMGB2	4.82E-16	-	0.388	0.249	6.68E-12
		1.3090325			
SPDL1	4.45E-12	-	0.225	0.098	6.17E-08
		1.3207352			
TK1	3.91E-20	-	0.224	0.084	5.42E-16
		1.3277374			
PEG10	2.86E-06	-	0.105	0.044	0.0396161
		1.3355483			2
CENPW	7.43E-14	-	0.205	0.085	1.03E-09
		1.3536875			
CRIP1	9.56E-37	-	0.598	0.338	1.33E-32
		1.3727157			
FMN2	1.23E-09	-	0.124	0.043	1.71E-05
		1.3796485			
LMO7-AS1	7.01E-16	-	0.173	0.062	9.73E-12
		1.3930944			
CKAP2	4.08E-14	-1.415752	0.248	0.12	5.67E-10
CKAP2L	3.91E-08	-	0.139	0.049	0.0005425
		1.4171481			2
KIF20B	3.98E-16	-	0.215	0.085	5.52E-12
		1.4318177			
LMNB1	1.41E-09	-	0.12	0.041	1.96E-05
		1.4352043			
NCAPG	7.15E-14	-	0.178	0.059	9.92E-10
		1.4907766			

SPC25	2.72E-10	-	0.108	0.035	3.78E-06
		1.4936818			
NCAPG2	2.81E-11	-	0.112	0.036	3.89E-07
		1.4943913			
RACGAP1	7.03E-13	-1.499533	0.122	0.041	9.75E-09
STMN1	7.43E-23	-	0.427	0.223	1.03E-18
		1.5010637			
HIST1H1E	1.02E-12	-	0.209	0.094	1.41E-08
		1.5172329			
NDC80	1.37E-15	-	0.144	0.049	1.91E-11
		1.5175036			
CDK1	6.88E-17	-1.536659	0.194	0.068	9.54E-13
TACC3	2.52E-13	-1.597613	0.105	0.031	3.50E-09
NUF2	1.77E-13	-1.639099	0.113	0.032	2.46E-09
KIF11	8.32E-14	-	0.15	0.046	1.15E-09
		1.6440642			
CDKN3	1.51E-15	-	0.175	0.065	2.09E-11
		1.6553532			
SHCBP1	1.25E-13	-1.693504	0.136	0.041	1.73E-09
KIF4A	1.81E-10	-	0.109	0.031	2.51E-06
		1.6946215			
PBK	7.28E-20	-	0.185	0.06	1.01E-15
		1.7031424			
DIAPH3	7.90E-22	-	0.247	0.088	1.10E-17
		1.7094547			
NUSAP1	9.05E-19	-1.736501	0.233	0.08	1.26E-14
GTSE1	1.06E-12	-	0.123	0.033	1.47E-08
		1.7477625			
FGF5	8.50E-11	-	0.161	0.065	1.18E-06
		1.8080363			
CENPE	3.00E-14	-	0.186	0.07	4.17E-10
		1.8135527			
PODXL	5.06E-17	-	0.132	0.036	7.02E-13
		1.8316684			
CCNA2	7.84E-19	-	0.167	0.052	1.09E-14
		1.8812371			
TOP2A	5.52E-21	-	0.284	0.122	7.66E-17
		1.8914525			
KNL1	5.97E-20	-	0.133	0.034	8.29E-16
		1.9308123			
PRC1	1.40E-22	-	0.25	0.091	1.94E-18
		1.9319718			
HIST1H1A	3.64E-17	-	0.137	0.035	5.05E-13
		1.9472326			

DEPDC1	9.07E-19	-1.975134	0.136	0.033	1.26E-14
TPX2	2.20E-26	-	0.242	0.082	3.05E-22
		1.9764384			
CDCA3	1.82E-13	-	0.108	0.025	2.53E-09
		1.9877095			
PRR11	1.35E-17	-	0.106	0.024	1.87E-13
		1.9882226			
AURKA	1.42E-17	-	0.116	0.03	1.97E-13
		1.9981443			
KIF23	3.45E-22	-	0.171	0.043	4.79E-18
		2.0047799			
HMMR	1.82E-22	-	0.186	0.049	2.52E-18
		2.0342744			
ANLN	1.28E-24	-	0.201	0.058	1.77E-20
		2.0459679			
BIRC5	8.30E-24	-	0.199	0.05	1.15E-19
		2.0664942			
MKI67	3.33E-28	-	0.22	0.058	4.62E-24
		2.0803608			
CEP55	8.65E-22	-	0.166	0.042	1.20E-17
		2.0806447			
UBE2C	5.54E-24	-	0.22	0.066	7.68E-20
		2.0906993			
CDCA8	4.06E-15	-	0.101	0.022	5.63E-11
		2.0922833			
CCNB2	7.38E-20	-	0.111	0.023	1.02E-15
		2.1649786			
DKK-1	1.35E-35	-	0.304	0.086	1.87E-31
		2.2036963			
CCNB1	2.49E-22	-2.253714	0.165	0.053	3.46E-18
ASPM	1.10E-28	-	0.21	0.055	1.52E-24
		2.2951839			
HIST1H4C	2.09E-22	-	0.403	0.232	2.90E-18
		2.3148825			
ESM1	1.66E-23	-	0.169	0.037	2.31E-19
		2.3181337			
HIST1H1B	2.36E-17	-2.32784	0.161	0.045	3.27E-13
CDC20	5.45E-19	-	0.106	0.02	7.56E-15
		2.4286555			
CENPF	1.04E-25	-	0.257	0.081	1.45E-21
		2.4470669			
DLGAP5	1.97E-23	-	0.127	0.025	2.73E-19
		2.4739436			

Supplementary Table 7. Primer information for qRT-PCR

Target	Gene Symbol	Gene Name
Hs02758991_g1	GAPDH	glyceraldehyde-3-phosphate dehydrogenase
Hs00153153_m1	HIF1A	hypoxia inducible factor 1 alpha subunit
Hs01118190_m1	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
Hs00942483_m1	LOX	lysyl oxidase
Hs00892681_m1	SLC2A1	solute carrier family 2 member 1
Hs00900055_m1	VEGFA	vascular endothelial growth factor A
Hs00943178_g1	PGK1	phosphoglycerate kinase 1
Hs00914594_m1	P4HA1	prolyl 4-hydroxylase subunit alpha 1
Hs00992441_m1	IL32	interleukin 32
Hs00606086_m1	HK2	hexokinase 2
Hs01046941_g1	LOXL3	lysyl oxidase like 3

Supplementary Table 8. Hashtag antibody information for scRNAseq

Name	Clone	Cat
TotalSeq™-B0251 anti-human Hashtag 1 Antibody	LNH-94; 2M2;	394631
TotalSeq™-B0252 anti-human Hashtag 2 Antibody	LNH-94; 2M2;	394633
TotalSeq™-B0253 anti-human Hashtag 3 Antibody	LNH-94; 2M2;	394635
TotalSeq™-B0254 anti-human Hashtag 4 Antibody	LNH-94; 2M2;	394637
TotalSeq™-B0255 anti-human Hashtag 5 Antibody	LNH-94; 2M2;	394639
TotalSeq™-B0256 anti-human Hashtag 6 Antibody	LNH-94; 2M2;	394641